

Component News AND TECHNOLOGY

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Tektronix

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Component Information for Tektronix

Special Issue - April 1994

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Preferred Parts List Release 7.0

Using A Reduced Set Of Parts Or, Simplify, Simplify, Simplify!

Editors Note:

CN&T recently had the opportunity to talk with Dave Brown and Dave Coreson of Network Displays about the company efforts to use The Preferred Parts List. The following article relates how Network Displays incorporates using a Reduced Set of Parts in with their entire product design philosophy.

Defining The Need

While managing a number of developments for terminal products, Dave Brown discovered that less could be more. Thus began a nearly 13 year effort to realize the concept of using a Reduced Set of Parts for NWD's product families. Requirements for lower cost products, greater functionality and targeting a greater percentage of customers drove the need for using a reduced set of parts. Looking at other products showed that they were being designed to meet the requirements of a number of diverse customers. Meeting this diversity resulted in complex products with many options and raised the overall product cost. Looking at the commercial market proved the opposite. The challenge was to design a product that met all of the needs of 80% of the market using the fewest possible parts, and with the greatest amount of performance and functionality. The NWD project team developed the following guidelines as part of their development project:

- Focus on getting 80% commonality across product families
- Integrate as much as possible to reduce cost
- Decrease total cost of by eliminating options and standardizing features
- Eliminate low volume options
- Focus on maximizing performance at a given price point
- Develop a clear set of objectives and priorities to guide the project and measure results

The Hard Work Is To Make It Simple!

The NWD design engineers specifically worked to simplify designs. Many of the design changes that resulted in simplification took several iterations, but often resulted in ideas that could be used in other product designs. Some of these ideas were the beginnings of Families of Designs - designs that with very little modification could support a number of platforms. Dave Brown notes that one of the keys to getting the design to meet the teams goals included a tremendous amount of interaction between the Engineering team and the Manufacturing team.

(continued on page 2)

Using A Reduced Set Of Parts... (cont.)

Another key point was getting the engineering team to take responsibility for the design not only as it went into manufacturing, but also through the life cycle. An example of this is applying new components for new designs into existing production. The engineers will work to maintain software or product compatibility while driving for lower cost or increased performance. Part of their responsibility on the new design is to investigate whether this part should be applied to current production. The engineers take responsibility for managing the parts usage for the entire portfolio of products. An example of this was the need for a lower cost LAN controller for the XP100 family. This part has now been retrofit into the XP350 design resulting in lower cost,

common components, and a reduction in part number usage.

Concurrent Design

Dave Coreson noted that concurrent design of the product family in manufacturing, market sales and distribution, suppliers and engineering, was and is a major factor in the success of the NWD team. With all of the key players moving in the same direction regarding design and use of components in the product family, significant reductions in cost can be achieved, and profit margins are greater. This philosophy is the cornerstone of the NWD organization.

Managing The Number of Parts In the Reduced Set of Parts

In order to keep the Reduced Set of Parts from continually rising with each new product design, the engineers who select the components usually try and use

as many of the components from previous designs as possible. Additionally, if the design requires new technologies or components, the engineering team which is now designing a Family of Products looks at older products or technologies that can be modified or deleted to reduce the total number of Parts in the list. Another factor is that the manufacturing area can control the number of components used in a design by the type of equipment on the floor. For instance all through-hole insertion equipment was eliminated and replaced with surface mount equipment. The design engineers must select only surface mount components. This decision was made jointly between Manufacturing and Engineering. So, it is a continual balancing act to limit the number of components for a design to keep down cost, and yet not handcuff the engineers to the point that they can't bring in any new parts to a design.

(continued on page 3)

NWD Manufacturing Strategy

Network Displays

Q3, FY94 Review

Dave Coreson

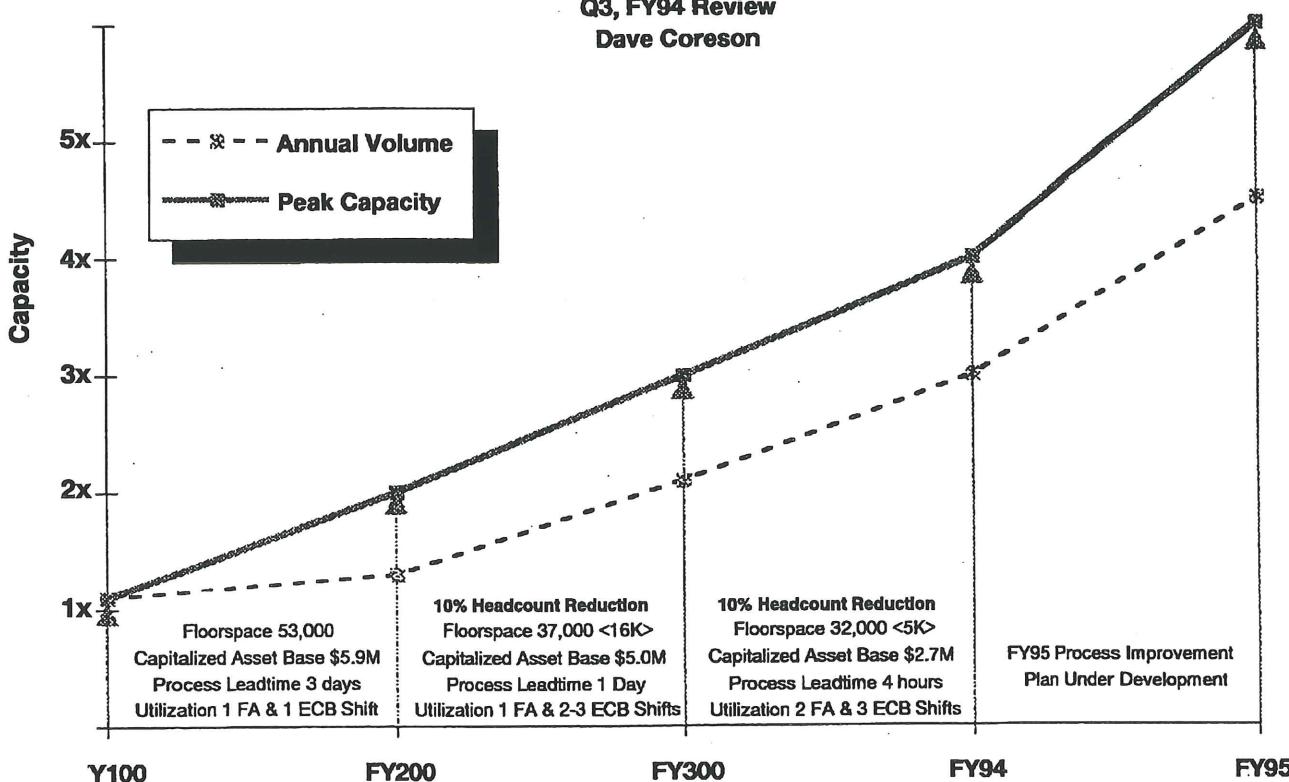


Figure 1. NWD Manufacturing Strategy Q3 Review.

Using A Reduced Set Of Parts... (cont.)

The Advantages

- As the total number of parts needed in the design are reduced, the time required to manufacture the product is also reduced – resulting in increased manufacturing capacity without significant capital investment.
- Using a reduced set of parts meant that less could go wrong.
- Total flexibility of the line – manufacturing lines can move quickly from product to product.
- Total inventory is reduced – Work in Process (WIP) is 11+ turns!
- Less liability for inventory of parts.
- Fewer part numbers to manage (inventory to stock status <1%)

We asked for a recent example of this kind of portfolio management and the current NWD "Alvin" project which offers analog video capability for an XTerminal was discussed. The Alvin project added only 16 new part numbers and reused over 400 placements. In addition, due to the simplicity of design and ease of manufacture, the Alvin team was able to move from idea to product demonstration to customers in just 4 1/2 months!

Carrying reusability to extremes allowed the NWD design engineers to design the XP100 board that, depending on how it is stuffed, can produce 5 major products. Having a low cost, simple solution with a high degree of commonality of parts also helped NWD win a recent large order. Manufacturing could respond quickly to the demand because of the high degree of parts commonality with the XP350 products. In addition, the team was able to focus on the high volume order and could eliminate unused functionality by eliminating and substituting parts on the board that significantly increased profit margin.

The Disadvantages

Trying to develop simple designs and simple manufacturing processes sounds easy. There are many issues that can quickly become quite complex because of all the constraints. This does increase work load and stress, but the payback is significant to the division. There is also the possibility of driving too much commonality, resulting in the losing the edge in technology. Again, it is significant that the design effort is scrutinized at all points and every part and process is evaluated to prevent these problems. Dave Coreson states that every project started using this type of scrutiny has come in under plan!

Rules of Thumb

We ended our conversation with a few rules of thumb about good design and using a reduced set of parts:

- It is difficult trading off material costs for process and overhead costs
- Small focused teams can drive a significant reuse of parts
- When there is lot's of teamwork and the objectives and priorities are clear, the team will make it happen
- Making a design simpler takes effort and needs to be rewarded
- Work hard on phase-out of older products
- Long-term support strategies must be reviewed with every new product and scrutinized (cost, contracts, etc.) for all obsolete products.

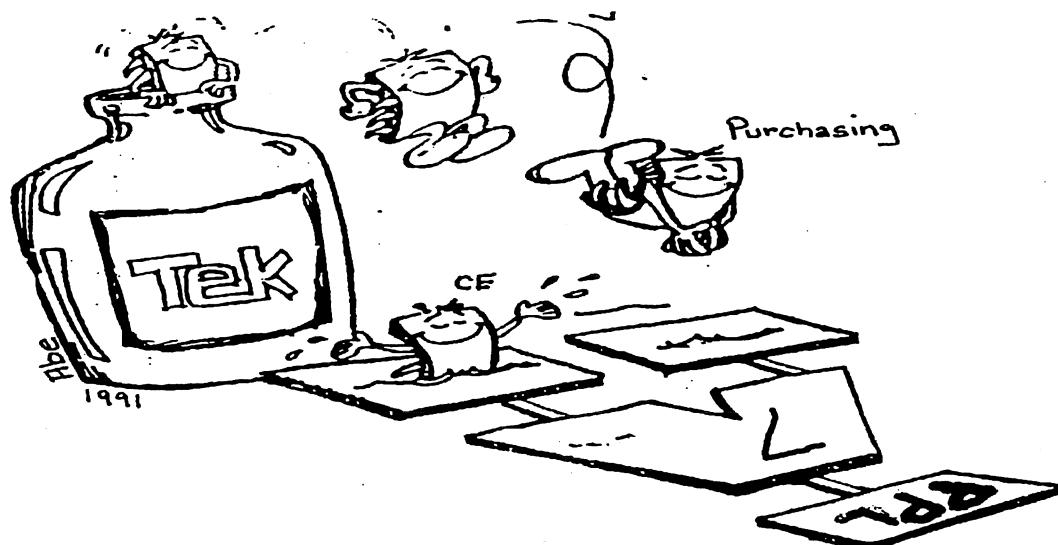
Conclusion

Make the design as simple as possible, continue to simplify it even during modifications, use existing components when possible, and when adding new parts ensure that they are part of the new design family so they can be used in other future products.

For questions, comments or more information, please contact:

Dave Brown
NWD Engineering Manager
685-2620, MS 60-850
davebr@orca.wv.tek.com
or,

Dave Coreson
NWD Manufacturing Manager
685-2801, MS 60-444
davec@orca.wv.tek.com



Surface Mount Components: Logic Devices – Gates

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Approved Suppliers

Expect one or more of the following vendors to be approved on the list of parts below: Texas Instruments, Motorola, AMD, Philips, National and IDT. A wide variety of suppliers are approved to minimize the potential for shortages due to the current logic allocation situation.

Gates

Industry P/N	Description	Tek P/N	Package
74HCT00	QUAD 2-INPUT NAND	156-5098-XX	SO14.150
74ACT00	QUAD 2-INPUT NAND	156-5464-XX	SO14.150
74F00	QUAD 2-INPUT NAND	156-5118-XX	SO14.150
74HCT02	QUAD 2-INPUT NOR	156-5106-XX	SO14.150
74ALS02	QUAD 2-INPUT NOR	156-6077-00	SO14.150
74AC02	QUAD 2-INPUT NOR	156-5460-XX	SO14.150
74F02	QUAD 2-INPUT NOR	156-5051-XX	SO14.300
74HCT04	HEX INVERTER	156-5081-XX	SO14.150
74ALS04	HEX INVERTER	156-5822-00	SO14.150
74AC04	HEX INVERTER	156-5415-XX	SO14.150
74F04	HEX INVERTER	156-5052-XX	SO14.150
74HCT08	QUAD 2-INPUT AND	156-5146-XX	SO14.150
74AC08	QUAD 2-INPUT AND	156-5414-00	SO14.150
74F08	QUAD 2-INPUT AND	156-5053-XX	SO14.150
74HCT10	TRIPLE 3-INPUT NAND	156-5130-XX	SO14.150
74AC10	TRIPLE 3-INPUT NAND	156-5417-00	SO14.150
74F10	TRIPLE 3-INPUT NAND	156-5186-00	SO14.150
74HCT11	TRIPLE 3-INPUT AND	156-5355-00	SO14.150
74AC11	TRIPLE 3-INPUT AND	156-5416-00	SO14.150
74F11	TRIPLE 3-INPUT AND	156-5247-XX	SO14.150
74HCT14	HEX INVERTER, SCHMITT TRIGGER	156-5131-XX	SO14.150
74F14	HEX INVERTER, SCHMITT TRIGGER	156-5268-00	SO14.150
74F20	DUAL 4-INPUT NAND	156-5504-XX	SO14.150
74HCT27	TRIPLE 3-INPUT NOR	156-5290-XX	SO14.150
74F27	TRIPLE 3-INPUT NOR	156-5499-XX	SO14.150
74HCT30	8-INPUT NAND	156-5132-XX	SO14.150
74F30	8-INPUT NAND	156-5500-00	SO14.150
74HCT32	QUAD 2-INPUT OR	156-5085-XX	SO14.150
74ALS32	QUAD 2-INPUT OR	156-5916-00	SO14.150
74AC32	QUAD 2-INPUT OR	156-6098-00	SO14.150
74F32	QUAD 2-INPUT OR	156-5054-XX	SO14.150
74F38	QUAD 2-INPUT NAND BUFFER, OPEN COLLECTOR	156-5164-XX	SO14.150
74HCT86	QUAD 2-INPUT XOR	156-5188-XX	SO14.150
74ACT86	QUAD 2-INPUT XOR	156-5982-00	SO14.150
74F86	QUAD 2-INPUT XOR	156-5198-XX	SO14.150
74HCT132	QUAD 2-INPUT NAND SCHMITT TRIGGER	156-5783-XX	SO14.150

Surface Mount Components: Logic Devices – Flip Flops

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Flip Flops

Industry P/N	Description	Tek P/N	Package
74HCT74	DUAL D-TYPE WITH SET AND RESET	156-5145-XX	SO14.150
74ACT74	DUAL D-TYPE WITH SET AND RESET	156-5821-XX	SO14.150
74F74	DUAL D-TYPE WITH SET AND RESET	156-5055-XX	SO14.150
74HC109	DUAL J-K, WITH PRESET AND RESET	156-5710-01	SO16.150
74AC109	DUAL J-K, WITH PRESET AND RESET	156-5462-01	SO16.150
74F109	DUAL J-K, WITH PRESET AND RESET	156-5189-00	SO16.150
74F112	DUAL J-K, NEGATIVE EDGE TRIG, WITH PRE-SET AND CLEAR	156-5246-00	SO16.150
74HCT174	HEX D-TYPE WITH RESET	156-5068-00	SO16.150
74AC174	HEX D-TYPE WITH RESET	156-6099-00	SO16.150
74F174	HEX D-TYPE WITH RESET	156-5193-00	SO16.150
74HCT175	QUAD D-TYPE, WITH RESET	156-5144-XX	SO16.150
74F175	QUAD D-TYPE, WITH RESET	156-5194-00	SO16.150
74HCT273	OCTAL D-TYPE, WITH RESET	156-5147-XX	SO20.300
74ACT273	OCTAL D-TYPE, WITH RESET	156-6127-00	SO20.300
74F273	OCTAL D-TYPE, WITH RESET	156-5195-01	SO20.300
74HCT374	OCTAL D-TYPE, 3-STATE	156-5143-XX	SO20.300
74ALS374	OCTAL D-TYPE, 3-STATE	156-5296-00	SO20.300
74ACT374	OCTAL D-TYPE, 3-STATE	156-5410-01	SO20.300
74F374	OCTAL D-TYPE, 3-STATE	156-5168-01	SO20.300
74ABT16374	16-BIT D-TYPE, 3-STATE	156-6694-00	SSO48.300
74HCT377	OCTAL D-TYPE, WITH ENABLE	156-5406-01	SO20.300
74ACT377	OCTAL D-TYPE, WITH ENABLE	156-5696-01	SO20.300
74F377	OCTAL D-TYPE, WITH ENABLE	156-5514-00	SO20.300
74HCT574	OCTAL D-TYPE, 3-STATE	156-5289-XX	SO20.300
74ALS574	OCTAL D-TYPE, 3-STATE	156-5393-00	SO20.300
74F574	OCTAL D-TYPE, 3-STATE	156-5602-00	SO20.300
74FCT574AT	OCTAL D-TYPE, 3-STATE	156-6237-00	SO20.300
29C821A	10-BIT D-TYPE, 3-STATE	156-6350-00	SO24.300
74ABT16821	20-BIT D-TYPE, 3-STATE	156-6786-00	SSO56.300
29C823A	9-BIT D-TYPE, WITH CLEAR AND ENABLE, 3-STATE	156-5765-00	SO24.300
29FCT520BT	8-BIT, MULTILEVEL PIPELINE REGISTER	156-6821-00	SO24.300

Surface Mount Components: Logic Devices – Latch, Demux/Decoder, Mux/Encoder

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Latch

Industry P/N	Description	Tek P/N	Package
74HC259	8-BIT ADDRESSABLE	156-5458-01	SO16.150
74HCT373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-5101-XX	SO20.300
74ACT373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-5408-00	SO20.300
74F373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-5059-XX	SO20.300
74FCT373CT	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-6275-00	SO20.300
74ACT16373	16-BIT D-TYPE, 3-STATE	156-6356-01	SSO48.300
74ABT16373	16-BIT D-TYPE, 3-STATE	156-6823-00	SSO48.300
74FCT16373CT	16-BIT D-TYPE, 3-STATE	156-6824-00	SSO48.300
74HCT573	OCTAL D-TYPE, 3-STATE	156-5409-01	SO20.300
74ALS573	OCTAL D-TYPE, 3-STATE	156-5800-00	SO20.300
74F573	OCTAL D-TYPE, 3-STATE	156-5767-01	SO20.300
29C841A	10-BIT D-TYPE, 3-STATE	156-6134-01	SO24.300

Demux/Decoder

Industry P/N	Description	Tek P/N	Package
74HCT138	1-TO-8 DECODER	156-5088-XX	SO16.150
74ALS138	1-TO-8 DECODER	156-5675-00	SO16.150
74ACT138	1-TO-8 DECODER	156-5948-XX	SO16.150
74F138	1-TO-8 DECODER	156-5190-XX	SO16.150
74HCT139	DUAL 2-TO-4 DECODER	156-5142-XX	SO16.150
74ACT139	DUAL 2-TO-4 DECODER	156-5952-00	SO16.150
74F139	DUAL 2-TO-4 DECODER	156-5191-XX	SO16.150
74HCT154	4-TO-16 DECODER	156-5123-XX	SO24.300

Mux/Encoder

Industry P/N	Description	Tek P/N	Package
74F148	8-TO-3 PRIORITY ENCODER	156-5253-00	SO16.150
74HCT151	8-TO-1 MUX	156-5133-00	SO16.150
74F151	8-TO-1 MUX	156-5166-00	SO16.150
74HCT153	DUAL 4-TO-1 MUX	156-5404-XX	SO16.150
74ACT153	DUAL 4-TO-1 MUX	156-5754-00	SO16.150
74F153	DUAL 4-TO-1 MUX	156-5293-00	SO16.150
74HCT157	QUAD 2-TO-1 MUX	156-5309-00	DIP16.3
74ACT157	QUAD 2-TO-1 MUX	156-5893-00	SO16.150
74F157	QUAD 2-TO-1 MUX	156-5192-XX	SO16.150
74F253	DUAL 4-TO-1 MUX, 3-STATE	156-5746-01	SO16.150
74HCT257	QUAD 2-TO-1 MUX, 3-STATE	156-5148-00	SO16.150
74F257	QUAD 2-TO-1 MUX, 3-STATE	156-5387-00	SO16.150

Surface Mount Components: Logic Devices – Counters, Shift Registers

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 list are shaded in gray.

Counters

Industry P/N	Description	Tek P/N	Package
74F160	SYNCH 4-BIT DECADE	156-5494-00	SO16.150
74HCT161	SYNCH 4-BIT BINARY	156-5134-00	SO16.150
74F161	SYNCH 4-BIT BINARY	156-5468-01	SO16.150
74ACT163	SYNCH 4-BIT BINARY	156-5465-XX	SO16.150
74F163	SYNCH 4-BIT BINARY	156-5497-XX	SO16.150
74F169	SYNCH 4-BIT UP/DOWN BINARY	156-5510-00	SO16.150
74ALS191	SYNCH 4-BIT UP/DOWN BINARY	156-5735-00	SO16.150
74F191	SYNCH 4-BIT UP/DOWN BINARY	156-5562-00	SO16.150
74HCT193	SYNCH 4-BIT UP/DOWN BINARY, WITH SEPARATE UP/DOWN CLOCK	156-5288-00	SO16.150
74F193	SYNCH 4-BIT UP/DOWN BINARY, WITH SEPARATE UP/DOWN CLOCK	156-5285-00	SO16.150
74HCT390	DUAL 4-BIT DECADE	156-5566-00	SO16.150
74HCT393	DUAL 4-BIT BINARY RIPPLE	156-5306-XX	SO14.150
74F579	8-BIT BIDIRECTIONAL BINARY, 3-STATE	156-5170-00	SO20.300
74HC590	8-BIT BINARY WITH OUTPUT REGISTERS	156-6366-00	SO16.150

Shift Registers SI – Serial In, PI – Parallel In, SO – Serial Out, PO – Parallel Out

Industry P/N	Description	Tek P/N	Package
74HCT164	8-BIT SIPO, WITH CLEAR	156-5135-XX	SO14.150
74F164	8-BIT SIPO, WITH CLEAR	156-5619-XX	SO14.150
74HC165	8-BIT PISO	156-5358-XX	SO16.150
74HCT166	8-BIT SI/PISO WITH CLEAR	156-5240-00	SO16.150
74HCT194	4-BIT BIDIRECTIONAL UNIVERSAL	156-5568-01	SO16.150
74F194	4-BIT BIDIRECTIONAL UNIVERSAL	156-5386-01	SO16.150
74HCT299	8-BIT UNIVERSAL	156-5569-01	SO20.300
74F299	8-BIT UNIVERSAL	156-5292-00	SO20.300
74HCT4094	8-STAGE SHIFT AND STORE	156-5254-00	SO16.150
74HC595	8-BIT SIPO, LATCHED, 3-STATE	156-5480-XX	SO16.150
74F595	8-BIT SIPO, LATCHED, 3-STATE	156-6787-00	SO16.150
74HC597	8-BIT PISO, LATCHED	156-6068-00	SO16.150

Surface Mount Components: Logic Devices – Buffers/Drivers

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Buffers/Drivers

Note: Removed TI's 74ABT16241 from the list. It is not a popular function and is sole sourced to TI. None of the FCT manufacturers build the '16241 function either.

Industry P/N	Description	Tek P/N	Package
74F125	QUAD BUFFER/DRIVER, \overline{OE} , 3-STATE	156-5502-01	SO14.150
74HCT125	QUAD BUFFER/DRIVER, \overline{OE} , 3-STATE	156-5304-XX	SO14.150
74HCT126	QUAD BUFFER/DRIVER, 3-STATE	156-5308-00	SO14.150
74F126	QUAD BUFFER/DRIVER, 3-STATE	156-5362-00	SO14.150
74F365	HEX BUFFER/DRIVER, 3-STATE	156-5718-00	SO16.150
74HCT240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-5239-00	SO20.300
74F240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-5056-XX	SO20.300
74HCT244	OCTAL BUFFER/DRIVER, 3-STATE	156-5070-XX	SO20.300
74ALS244	OCTAL BUFFER/DRIVER, 3-STATE	156-6711-00	SO20.300
74ACT244	OCTAL BUFFER/DRIVER, 3-STATE	156-5819-00	SO20.300
74F244	OCTAL BUFFER/DRIVER, 3-STATE	156-5057-XX	SO20.300
74FCT244AT	OCTAL BUFFER/DRIVER, 3-STATE	156-6260-00	SO20.300
74FCT244T	OCTAL BUFFER/DRIVER, 3-STATE	156-6261-XX	SO20.300
74ABT2244	OCTAL BUFFER/DRIVER, 3-STATE, WITH 25 OHM SERIES TERMINATED OUTPUTS	156-6695-00	SO20.300
74ACT16244	16-BIT BUFFER/DRIVER, 3-STATE, \overline{OE}	156-6220-01	SSO48.300
74ABT16244	16-BIT BUFFER/DRIVER, 3-STATE, \overline{OE}	156-6697-00	SSO48.300
74ABT162244	16-BIT BUFFER/DRIVER, 3-STATE, WITH 25 OHM SERIES TERMINATED OUTPUTS, \overline{OE}	156-6691-00	SSO48.300
74HCT540	OCTAL BUFFER/DRIVER, INVERTED, FLOW THRU, 3-STATE	156-5983-00	SO20.300
74HCT541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-5220-01	SO20.300
74ALS541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-5182-00	SO20.300
74F541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-5452-01	SO20.300
74FCT541T	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-5860-00	SO20.300
74AS756	OCTAL, INVERTED, DRIVER, OPEN-COLLECTOR	156-5187-00	SO20.300
74AS760	OCTAL, DRIVER, OPEN-COLLECTOR	156-5879-00	SO20.300
74FCT827AT	10-BIT BUFFER/DRIVER, 3-STATE	156-5734-XX	SO24.300
29C827A	10-BIT BUFFER/DRIVER, 3-STATE	156-6114-01	SO24.300
29C828A	10-BIT INVERTED BUFFER/DRIVER, 3-STATE	156-6110-00	SO24.300

Surface Mount Components: Logic Devices – Transceivers, Misc. Functions

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Transceivers

Industry P/N	Description	Tek P/N	Package
74HCT245	OCTAL, 3-STATE	156-5071-XX	SO20.300
74ALS245	OCTAL, 3-STATE	156-5391-XX	SO20.300
74ACT245	OCTAL, 3-STATE	156-5820-00	SO20.300
74F245	OCTAL, 3-STATE	156-5058-XX	SO20.300
74FCT245T	OCTAL, 3-STATE	156-5797-02	SO20.300
74ABT2245	OCTAL, WITH RESISTOR TERMINATED OUT-PUTS, 3-STATE	156-6696-00	SO20.300
74ABT16245	16-BIT, 3-STATE	156-6693-00	SSO48.300
74ABT162245	16-BIT, WITH RESISTOR TERMINATED OUT-PUTS, 3-STATE	156-6692-00	SSO48.300
74F543	OCTAL LATCHED, 3-STATE	156-5561-00	SO24.300
74ABT16543	16-BIT LATCHED, 3-STATE	156-6633-00	SSO56.300
74F621	OCTAL, OC	156-6632-00	SO20.300
74ALS641A-1	OCTAL, OPEN-COLLECTOR	156-6212-00	SO20.300
74HC646	OCTAL REGISTERED, WITH MUX REGISTER, 3-STATE	156-6316-01	SO24.300
74FCT646AT	OCTAL REGISTERED, WITH MUX REGISTER, 3-STATE	156-6465-00	SO24.300
74FC1162646A1	16-BIT REGISTERED, WITH RESISTOR TERMINATED OUTPUTS, 3-STATE	156-6816-00	SSO56.300
74HCT652	OCTAL REGISTERED, 3-STATE	156-6464-00	SO24.300
74ALS652	OCTAL REGISTERED, 3-STATE	156-5159-00	SO24.300
74FCT652AT	OCTAL REGISTERED, 3-STATE	156-6176-XX	SO24.300
74ABT652	OCTAL REGISTERED, 3-STATE	156-6475-00	SO24.300
29C361A	10-BIT, WITH HYSTERESIS, 3-STATE	156-5859-00	SO24.300

Misc. Functions

Industry P/N	Description	Tek P/N	Package
88915	PLL CLOCK DRIVER WITH 5 OUTPUTS	156-6487-00	PLCC28
88916	LOW SKEW PLL CLOCK DRIVER WITH PROCESSOR RESET	156-6681-00	SO20.300
10H645	1 TO 9 TTL CLOCK DRIVER, INTERNAL PECL	156-6759-00	PLCC28-1
74F280	9-BIT ODD/EVEN PARITY GENERATOR	156-6380-00	SO14.150
74F283	4-BIT BINARY FULL ADDER, WITH FAST CARRY	156-5513-00	SO16.150
74HCT123	DUAL RETRIG MONOSTABLE MULTIVIBRATOR, WITH RESET	156-6061-XX	SO16.150
74HCT221	DUAL NON-RETRIG MONOSTABLE MULTIVIBRATOR	156-5888-XX	SO16.150
74QST3384	10-BIT BUS SWITCH	156-6515-01	QSOP24.150
74QST3383	BUS EXCHANGE SWITCH	156-6758-00	QSOP24.150
74HC4538	DUAL RETRIG PRECISION MONOSTABLE MULTIVIBRATOR	156-5479-01	SO16.150
74HC4050	HEX HIGH-TO-LOW LEVEL SHIFTERS	156-6301-00	SO16.150
74F521	8-BIT IDENTITY COMPARATOR, /P=/Q,	156-5197-XX	SO20.300
74HCT688	8-BIT MAGNITUDE COMPARATOR	156-5477-XX	SO20.300
74ALS688	8-BIT MAGNITUDE COMPARATOR	156-5161-00	SO20.300

**Surface Mount Components:
Low Density CMOS Electrically Eraseable PLDs, High Density PLDs**

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Low Density CMOS Electrically Eraseable PLDs

Device	Tek P/N	Tpd	# of I/Os	# of Macrocells	Package Type
16V8-7	156-6548-00	7ns	8	8	PLCC20
16V8-10	156-5848-00	10ns	8	8	PLCC20
16V8-15	156-5546-00	15ns	8	8	PLCC20
16V8-25	156-6161-00	25ns	8	8	PLCC20
16V8Q-25 Quarter Power	156-5788-00	25ns	8	8	PLCC20
20V8-5	156-6653-00	5ns	8	8	PLCC28-1
20V8-10	156-5775-00	10ns	8	8	PLCC28-1
20V8-15	156-5547-00	15ns	8	8	PLCC28-1
20V8-25	156-6193-00	25ns	8	8	PLCC28-1
22V10-7	156-6512-00	7.5ns	10	10	PLCC28-1
22V10-15	156-5925-00	15ns	10	10	PLCC28-1
22V10-25	156-5924-00	25ns	10	10	PLCC28-1
22V10Q-25 Quarter Power	156-6065-00	25ns	10	10	PLCC28-1
26V12H-20	156-6650-00	20ns	12	12	PLCC28-1
20RA10-12	156-6474-00	12ns	10	10	PLCC28-1
20RA10-30	156-6539-00	30ns	10	10	PLCC28-1
16VP8-25	156-6723-00	25ns	8	8	PLCC20

High Density PLDs

Note: Altera's EPM5000 family has been removed from the list in favor of Altera's EPM7000 family or AMD's MACH family. Also, the speed grade being used for 156-6780-00 is 15ns; last Revision listed a 12ns part.

Type	Tek P/N	Tpd	# of I/Os	# of Macrocells	Package Type
Altera EPM7000 family					
EPM7032LC44-15	156-6500-00	15ns	32	32	PLCC44
EPM7128LC84-15	156-6780-00	15ns	64	128	PLCC84
AMD MACH family					
MACH110-15	156-6594-00	15ns	32	32	PLCC44
MACH210-20	156-6595-00	20ns	32	64	PLCC44
MACH210-15	156-6680-00	15ns	32	64	PLCC44
MACH210A-10	156-6776-00	10ns	32	64	PLCC44
MACH120-15	156-6687-00	15ns	48	48	PLCC68
MACH220-15	156-6601-00	15ns	48	96	PLCC68
MACH215-20	156-6646-00	20ns	32	64	PLCC44
MACH230-15	156-6690-00	15ns	64	128	PLCC84

Surface Mount Components: SRAM Based FPGAs

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

SRAM Based FPGAs

3000 family

3000 family	Tek P/N	CLBs	I/OBs/ I/O pins	Internal Toggle Freq.	Package
3020-70	156-5548-00	64	64/58	70	PLCC68
3020-70	156-6148-00	64	64/64	70	PLCC84
3030-70	156-6312-00	100	80/58	70	PLCC68
3030-70	156-6147-00	100	80/74	70	PLCC84
3030-100	156-6591-00	100	80/74	100	PLCC84
3042-70	156-6194-00	144	96/74	70	PLCC84
3042-100	156-6563-00	144	96/74	100	PLCC84
3042-100	156-6351-00	144	96/82	100	PQFP100
3064-100	156-6406-00	224	120/120	100	PQFP160
3164-3	156-6887-00	224	120/70	270	PLCC84
3090-125	156-6495-00	320	144/70	125	PLCC84
3090-100	156-6357-00	320	144/70	100	PLCC84
3090-100	156-6825-00	320	144/144	100	PQFP160
3190-4	156-6674-00	320	144/70	195	PLCC84
3190-3	156-6810-00	320	144/144	270	PQFP160
3190-3	156-6886-00	320	144/70	270	PLCC84
3195-4	156-6718-00	320	176/70	230	PLCC84

4000 family

4000 family	Tek P/N	CLBs	I/OBs/ I/O pins	Combinatorial delay F/G inputs to X/Y outputs	Package
4003A-5	156-6801-00	100	80/78	5ns	PQFP100
4003A-6	156-6761-00	100	80/78	6ns	PQFP100
4005-5	156-6671-00	196	112/112	5ns	PQFP160
4005-6	156-6532-00	196	112/112	6ns	PQFP160
4005A-6	156-6657-00	196	112/112	6ns	PQFP208
4005H-5	156-6872-00	196	192/192	5ns	MQFP240
4006-6	156-6749-00	256	128/128	6ns	PQFP160
4006-6	156-6592-00	256	128/128	6ns	PQFP208
4010-5	156-6662-00	400	160/160	5ns	MQFP208
4013-5	156-6871-00	576	192/160	5ns	MQFP208

Altera's FLEX 8000 family

FLEX 8000 p/n	Tek p/n	LE	I/O pins	# of flip flops	Package
EPF8820-2	156-6892-00	672	152	820	PQFP208
EPF8452-2	156-6901-00	336	116	452	PQFP160

Surface Mount Components: ECL Logic Devices

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

ECL Logic Devices 10KH ECL – Motorola is the primary supplier of ECL logic devices.

Vendor P/N	Description	Tek P/N	Package
Gates			
10H102	Quad 2-input NOR gate	156-5801-01	PLCC20
10H104	Quad 2 input AND gate	156-5610-00	PLCC20
10H107	Triple 2-input EXOR/NOR gate	156-5973-00	PLCC20
10H109	Dual 4-5 input OR/NOR	156-5381-01	PLCC20
10H101	Quad OR/NOR gate	156-5383-00	PLCC20
10H105	Triple 2-3-2 input OR/NOR gate	156-5382-01	PLCC20
10H117	Dual 2-wide 2-3 input OR-AND/OR-AND-INV gate	156-5974-00	PLCC20
10H121	4-wide OR-AND/OR-AND-INV gate	156-5450-00	PLCC20
10H210	Dual 3 input 3 output OR gate	156-5611-00	PLCC20
10H103	Quad 2-input OR	156-5863-00	PLCC20
10H189	Hex inverter, with enable	156-5609-00	PLCC20
Flip Flops, Latches, Registers			
10H130	Dual D-type latch	156-5972-00	PLCC20
10H131	Dual D-type flip flop	156-5221-XX	PLCC20
10H176	Hex D-type flip flop	156-5335-00	PLCC20
10H141	4-bit universal shift register	156-5380-01	PLCC20
Driver/Receivers			
10H116	Differential triple line receiver	156-5269-01	PLCC20
10H115	Quad line receiver	156-5449-00	PLCC20
10H123	Triple 4-3-3 input bus driver, 25 Ohm	156-5658-00	PLCC20
Mux			
10H164	8-to-1 mux	156-5470-01	PLCC20
10H174	Dual 4-to-1 mux	156-5471-01	PLCC20
Counters			
10H136	Universal hexadecimal counter	156-5796-00	PLCC20
10H016	4-bit binary counter	156-5384-00	PLCC20
Translators			
10H124	Quad TTL-to-ECL translator	156-5325-01	PLCC20
10H125	Quad ECL-to-TTL translator	156-5324-XX	PLCC20
10H350	Quad ECL-to-TTL translator, single supply	156-5264-00	PLCC20
10H351	Quad TTL/NMOS-to-ECL translator	156-6001-00	PLCC20
Decoders			
10H162	Binary to 1-8 Decoder (HIGH)	156-5469-00	PLCC20

(ECL Logic Devices continued on page 13)

Surface Mount Components: 10KH ECL, ECLinPS & ECLinPS-Lite

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

10KH ECL (cont.)

Vendor P/N	Description	Tek P/N	Package
Miscellaneous Functions			
10H166	5-bit magnitude comparator	156-5789-00	PLCC20
10H640	ECL to TTL clock driver for 68030/040	156-6385-00	PLCC28-1
10H641	1 TO 9 PECL to TTL clock driver	156-6807-00	PLCC28-1
10H644	PECL to TTL clock driver for 68030/040	156-6831-00	PLCC20

ECLinPS and ECLinPS-Lite

Vendor P/N	Description	Tek P/N	Package
Gates			
10E101	Quad 4-input OR/NOR gate, differential out	156-5942-00	PLCC28-1
100E101	Quad 4-input OR/NOR gate, differential out	156-6203-01	PLCC28-1
10E104	Quint 2-input AND/NAND gate, differential out	156-5943-00	PLCC28-1
100E104	Quint 2-input AND/NAND gate, differential out	156-6204-00	PLCC28-1
10E107	Quint 2-input XOR/XNOR gate	156-6181-00	PLCC28-1
100E107	Quint 2-input XOR/XNOR gate	156-6797-00	PLCC28-1
10EL05	2-input differential AND/NAND gate	156-6412-00	SO8.150
10E404	Quad differential AND/NAND gate	156-6499-00	PLCC28-1
10EL07	2-input XOR/XNOR gate	156-6637-00	SO8.150
10EL01	4-input OR/NOR gate	156-6640-00	SO8.150
10EL11	1 to 2 differential fanout buffer	156-6477-00	SO8.150
Mux			
10E154	5-bit 2-to-1 mux/latch	156-5931-00	PLCC28-1
10E156	3-bit 4-to-1 mux/latch	156-5932-00	PLCC28-1
10E164	16-to-1 mux	156-6227-00	PLCC28-1
10E457	Triple differential 2-to-1 mux	156-6498-00	PLCC28-1
10EL57	4-to-1 differential mux	156-6727-00	SO16.150
10EL58	2-to-1 mux	156-6614-00	SO8.150
100E158	Quint 2-to-1 mux, differential out	156-6209-00	PLCC28-1
100E163	Dual 8-to-1 mux, differential out	156-6210-00	PLCC28-1
Driver/Receiver			
10E116	Quint differential line receiver	156-5944-01	PLCC28-1
10E112	Quad driver with enable	156-5986-00	PLCC28-1
10EL89	Coaxial cable driver	156-6521-00	SO8.150
10EL16	Differential receiver	156-6639-00	SO8.150
100E112	Quad driver with enable	156-6206-00	PLCC28-1

(ECLinPS & ECLinPS-Lite continued on page 14)

Surface Mount Components: ECLinPS & ECLinPS-Lite, RS-232 Interface Devices

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

ECLinPS and ECLinPS-Lite

Vendor P/N	Description	Tek P/N	Package
Counters			
10E016	8-bit synch binary	156-5941-00	PLCC28-1
100E016	8-bit binary	156-5953-01	PLCC28-1
10E137	8-bit ripple	156-6624-00	PLCC28-1
Flip Flops			
10E151	Hex D-type flip flop, differential out	156-5699-00	PLCC28-1
10E131	Quad D-type flip flop, differential out	156-5857-XX	PLCC28-1
10EL31	D-type with set and reset	156-6803-00	SO8.150
10E143	9-bit register with select and reset	156-6538-00	PLCC28-1
Flip Flops (cont.)			
100E131	Quad D-type flip flop, differential out	156-6207-01	PLCC28-1
100E141	8-bit bidirectional shift register	156-6208-01	PLCC28-1
Miscellaneous Functions			
10EL33	Divide by 4 clock divider	156-6719-00	SO8.150
10E111	1-to-9 differential clock driver	156-5672-00	PLCC28-1
100E111	1-to-9 differential clock driver	156-6205-00	PLCC28-1
10E166	9-bit comparator	156-6245-00	PLCC28-1
100E196	Programmable delay, 20ps, with analog Ftune	156-6413-00	PLCC28-1
100315	Quad, low skew differential clock driver (National F100K)	156-6196-00	SO16.150

RS-232 Interface Devices – Suppliers: Linear Technologies, Maxim, National

Note: The LT1280 has been removed in favor of the LT1180A. Also, I've removed the 1488 and 1489 devices in favor of the lower power CMOS 14C88 and 14C89.

Vendor P/N	Supply Voltage	# of Drivers/ Receivers	Other Features	Tek P/N	Package
14C89	+5V	4 Receivers		156-5553-00	SO14.150
14C88	±12V	4 Drivers		156-5554-00	SO14.150
MAX232	+5V	2/2	External caps required	156-5776-XX	SO16.300
LT1180A	+5V	2/2	0.1uF caps required, low power shutdown, ±10KV ESD protection	156-6086-00	SO18.300
MAX243	+5V	2/2	Negative input threshold on one receiver	156-6664-00	SO16.150
MAX251	±12V	2/2	MAX250 and MAX251 are an opto isolated, RS-232 chip set.	156-6292-00	SO14.150
MAX250	+5V			156-6293-00	SO14.150
MC145406	±12V, +5V	3/3		156-5437-01	SO16.300
LT1133	+5V	3/5	External caps required	156-6730-00	SO24.300

(RS-232 Interface Devices continued on page 15)

Surface Mount Components: RS-232 Interface Devices, Misc. Interface Devices, Delay Lines

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

RS-232 Interface Devices (cont.) – Suppliers: Linear Technologies, Maxim, National

Vendor P/N	Supply Voltage	# of Drivers/ Receivers	Other Features	Tek P/N	Package
LT1137A	+5V	3/5	0.1uF caps required, ±10KV ESD protection, with 2 shutdown modes	156-6746-00	SO28.300
MAX238	+5V	4/4		156-6423-00	SO24.300
LT1130A	+5V	5/5	0.1uF caps required, ±10KV ESD protection		

Miscellaneous Interface Devices – Suppliers: Linear Technologies, National, AMD, Texas Instruments

Vendor P/N	Description	Tek P/N	Package
26LS32	Quad differential line receiver, meets RS-422 & RS-423 standards	156-5882-XX	SO16.150
9638	Dual differential line driver, meets RS-422A standard	156-6032-01	SO8.150
DS3691	Dual RS-422 or quad RS-423 line driver, 3-state	156-6106-00	SO16.150
LTC485	Single RS-485 line driver/receiver, low power	156-6584-01	SO8.150
LTC491	Single RS-485/RS-422 line driver/receiver, low power	156-6802-00	SO14.150
75160B	Octal GPIB transceiver (data bus)	156-5580-01	SO20.300
75162B	Octal GPIB transceiver (control bus for multi-controllers)	156-6677-00	SO24.300
75ALS170	Triple differential bus transceiver/enable, RS-422A/RS-485, with thermal shutdown protection	156-6788-00	SO20.300
75ALS171	Triple differential bus transceiver/enable, RS-422A/RS-485, with driver enables and thermal shutdown protection	156-6724-00	SO20.300
8392	Coaxial interface transceiver for IEEE 802.3, 10BASE5	156-6409-00	PLCC28-1

Delay Lines (Active) – Abe Ghahyasi, 627-2567, Abe.Ghahyasi@TEK.COM

Delay Line	Vendor Part #	Package	Tek P/N
CMOS;TRIPLE 50NS	DS1013S-50	SO16.300	156-6083-00
CMOS;5 TAPS, 25NS	DS1000S-25	SO16.300	156-6453-00
CMOS;7 TAPS, 4-10NS,3-40NS	DS1007S-10	SO16.300	156-6410-01
CMOS;10 Taps, 10NS each	DS1010S-100	SO16.150	156-5727-00
CMOS; PROGRAMMABLE; 256 TAPS; 0.5 NS	DS1020S-050	SO16.150	156-6617-xx
BIPOLAR; DIGITALLY PROGRAMMABLE, 10PS STEPS	AD9501	PLCC20	156-6217-00
ECL; DIGITALLY PROGRAMMABLE; 10PS STEPS	AD9500	PLCC28	156-6290-00
ECL;PROGRAMMABLE W/ANALOG FTUNE,20PS	MC100E196	PLCC28	156-6413-00
ECL; DUAL DIFFERENTIAL, ADJUSTABLE	BT622	PLCC28	156-6778-00

Surface Mount Components: DRAMs/VDRAMs, EPROM/FLASH

Abe Ghahyasi, 627-2567, Abe.Ghahyasi@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Currently, the 2nd generation 4 MEG is the preferred DRAM. This part comes in DIP, ZIP, SOJs, and TSOPs packages. There are two type of SOJ packages, 300 mils and 350 mils. The **SOJ.350 package is not recommended for new designs**, since the die size for the 2nd generation is small enough to package it reliably in 300 mils SOJ. Also, due to the high performance of the SMD packages as far as low inductance, capacitance, real estate, etc. the **only packages of choice would be SOJ and TSOP packages**.

DRAM/VDRAM – Suppliers: NEC, Toshiba, TI (**VDRAM only**) (*Samsung in process of evaluation*)

DRAM	Density (bits)	Config. (words X bits)	Speed (nS)	Package	Tek P/N
4 MEG	4MEG	4MEG X 1	80	SOJ26.300	156-6398-xx
		1MEG X 4	70	SOJ26.300	156-6421-xx
		512K X 8	70	SOJ28.400	156-6578-xx
		256K X 16 (Fast page, self-refresh)	70	SOJ40.400	156-6582-xx
				TSOP44	156-6846-xx
16MEG		16MEG X 1	60/70	SOJ28.300	not assigned
		4MEG X 4	60/70	SOJ28.300	not assigned
				TSOP	not assigned
16MEG		1MEG X 16	60/70	TSOPII	not assigned
16MEG Sync		4MEG X 4	TBD	TSOPII	not assigned
		1MEG X 16	TBD	TSOPII	not assigned
Video DRAM	1MEG *	256K X 4	80	SOJ28.400	156-5680-xx
	2MEG	TBD	70	TBD	not assigned
	4MEG	256K X 16	70	SO64	156-6555-00

*Recommended for current designs, Not new designs

EPROM/FLASH – Suppliers: AMD, Intel

EPROM	Density (bits)	Config. (words X bits)	Feature	package	Tek P/N
	128K	16K X 8	50/60	PLCC	not assigned
256K		32K X 8	120	PLCC	156-5835-00
			50/60	PLCC32	not assigned
512K		64K X 8	150	PLCC32	156-6547-00
1MEG		128K X 8	50/60	PLCC32	not assigned
1MEG		128K X 8	120ns	PLCC32	156-6447-00
1MEG		64K X 16	150	PLCC44	156-5209-00
2MEG		256K X 8	150	PLCC32	156-6302-00
		128K X 16	150	PLCC44	156-6625-00
4MEG		512K X 8	150	PLCC32	156-6597-00
		256K X 16	120	PLCC44	not assigned
8MEG					not assigned
FLASH	1MEG	128K X 8 Vpp=12V → Vpp=5V →	200	PLCC32	156-6085-01
			120	PLCC32	156-6663-00

(EPROM/FLASH continued on page 17)

Surface Mount Components: EEPROM/FLASH, EEPROM, PROM

Abe Ghahyasi, 627-2567, Abe.Ghahyasi@TEK.COM

New adds to Rev 7.0 are shaded in gray.

EEPROM/FLASH (cont.) – Suppliers: AMD, Intel

	Density (bits)	Config. (words X bits)	Feature	Package	Tek P/N
FLASH	2MEG	256K X 8 High endurance ->	150	PLCC32	156-6461-01
			150	PLCC32	156-6747-00
	4MEG	512K X 8 Vpp=5v	120	PLCC32	156-6869-xx
		512K X 8/ 256K X 16			not assigned
8MEG	1MEG X 8	150	TSOP40	156-6553-00	
			TSOP40 rev. pinout	156-6554-00	
16MEG	1MEG X 16/ 2MEG X 8		TSOP		not assigned

EEPROM – Supplier: Xicor (*Catalyst & National in process of evaluation*)

EEPROM	Density (bits)	Config. (words X bits)	Feature	Package	Tek P/N
EEPROM	2K	256 X 8	Serial 2-Wire Bus Structure	SO8.15	156-6272-xx
	4K	512 X 8		SO8.15	156-6522-xx
	8K	1K X 8		SO8.15	156-6510-xx
	16K	2K X 8		SO8.15	156-6751-xx
	32K	4K X 8		SO14	not assigned
	64K	8K X 8		PLCC32	156-5412-xx
	256K	32K X 8	Parallel	PLCC32	156-5785-00

PROM – Supplier: Cypress

PROM (Registered)	Density (bits)	Config. (words X bits)	Package	Tek P/N
	4K	512 X 8	PLCC28	not assigned
			PLCC28	not assigned
	8K	1K X 8	PLCC28	not assigned
	16K	2K X 8	PLCC28	not assigned
			PLCC28	not assigned
			PLCC28	not assigned
	64K	8K X 8	PLCC32	not assigned
			PLCC32	not assigned
	256K	32K X 8	PLCC32	not assigned
			PLCC32	not assigned
PROM (non-Registered)	8K	1K X 8	PLCC28	not assigned
	64K	8K X 8	PLCC28	not assigned
			PLCC28	not assigned
	128K	16K X 8 (Power down)	DIP28.3	not assigned
PROM (Serial)		36288 X 1	DIP08.3	not assigned
		64K X 1	DIP08.3	not assigned
		128K X 1	DIP08.3	not assigned

Surface Mount Components: SRAMs & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

SRAMs, Suppliers: Cypress, Toshiba, NEC

Density (bits)	Config. (words X bits)	Speed (ns)	Iccdr	Package	Tek P/N
16K	2K X 8	25		SOJ24.300	156-5981-0X
	2K X 8	15		SOJ24.300	156-6317-01
	4K X 4	7		SOJ28.300	156-6368-01
64K	8K X 8	150	50UA	SO28.350	156-5011-01
	8K X 8	25		SOJ28.300	156-6240-01
	8K X 8	15		SOJ28.300	156-6005-01
	8K X 8	12		SOJ28.300	156-6795-01
256K	32K X 8	120	50UA	SO28.330	156-5286-00
	32K X 8	120	15UA	SO28.330	156-5940-00
	32K X 8	100	1UA	SO28.330	156-5266-01
	32K X 8	70	100UA	SO28.350	156-6211-01
	32K X 8	25		SOJ28.300	156-6274-01
	64K X 4	25		SOJ24.300	156-5950-00
	32K X 8	15		SOJ28.300	156-6794-00
	256K X 1	20		SOJ24.300	156-6609-00
1 MEG	128K X 8	100	15UA	SO32.440	156-6151-01
	128K X 8	100		SO32.450	156-6329-00
	128K X 8	25		SOJ32.450*	156-6608-00
	128K X 8	70		SOJ32.400	156-6688-00
	128K X 8	20		SOJ32.300	156-6502-01
	256K X 4	25		SOJ28.4	156-6742-00
4 MEG	512K X 8	70	15UA	SO32.525	156-6649-01
	64K X 16	20		SOJ44	156-6796-00

SRAM Dual Port, Supplier: TBD (To Be Determined)

SRAM DUAL PORT	Density (bits)	Config. (words X bits)	Speed (ns)	Package	Tek P/N
MASTER	16K	2K X 8	25	PLCC52	156-6493-00
SLAVE		2K X 8	25	PLCC52	156-6494-00

FIFOs, Supplier: Cypress

Density (bits)	Config. (words X bits)	Speed (ns)	Package	Tek P/N
0.5K	64 X 9	25	PLCC32	156-6812-00
4.6K	512 X 9	65	PLCC32	156-5446-01
4.6K	512 X 9	35	PLCC32	156-6619-01
9K	1K X 9	65	PLCC32	156-6109-00
18.4K	2K X 9	20	PLCC32	156-6471-00
36.8K	4K X 9	65	PLCC32	156-6458-00
73.7K	8K X 9	50	PLCC32	156-6729-00

Surface Mount Components: SRAMs & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Intel 80C51 Family CMOS Microcomputers—Suppliers: Intel, Philips

Vendor P/N	Description	Package	Tek P/N
N80C31BH	ROMLESS, 12 MHZ	PLCC44	156-6087-00
N87C51	4KX8 OTP EPROM, 12 MHZ	PLCC44	156-5490-00
SC80C451CCA68	ROMLESS, 12 MHZ, (7) 8-BIT I/O PORTS	PLCC68	156-5526-00
SC87C451CCA68	4KX8 OTP EPROM, 12 MHZ, (7) 8-BIT I/O PORTS	PLCC68	156-5526-00
SC87C751-1A28	2KX8 OTP EPROM, 12 MHZ, I ² C, COUNTER/TIMER	PLCC28	156-6315-00

Intel CMOS Embedded Microprocessors—Suppliers: Intel, AMD

Vendor P/N	Description	Package	Tek P/N
N80C186	16-BIT INTERNAL/EXTERNAL, HIGH INTEGRATION	PLCC68	156-5317-00
N80C188	16-BIT INTERNAL, 8-BIT EXTERNAL, HIGH INTEGRATION	PLCC68	156-5866-00

Microprocessors, 8-bit, Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
68HC11A8	ROM,A/D,Timer	PLCC52	156-5472-01
68HC705B5	Eeprom,A/D ,Timer	PLCC52	156-6124-00
68HC705B9	Eeprom,A/D ,Timer	S028-300	156-6243-00

Microprocessors, 16-bit, Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
68HC000	12MHZ	PLCC68	156-6367-00

Microprocessors, 32-bit, Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
68020	25MHZ	PQFP132	156-6213-00
68330	16MHZ	PQFP132	156-6559-00
29005	16MHZ	PQFP168	156-6526-00
68331	16MHZ	PQFP132	156-6298-00
68332	16MHZ, 2K RAM	PQFP132	156-6454-00

Microcomputer, 8-bit, Supplier: TBD

Vendor #	Notes	Package	Tek P/N
68HC705P9	2112 X 8 EPROM, OTP A/D	SO28.300	156-6243-00

Surface Mount Components: SRAMs & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Peripherals, Communication, Supplier: TBD

Type	Notes	Package	Vendor #	Tek P/N
	Ethernet Controller	PLCC68	7990	156-5534-00
	Ethernet Controller W/Twisted Pair Interface	PQFP160	DP83934	156-6754-00
	Ethernet, Manches- ter Encoder/Decod- er	PLCC28	7992	156-6408-00
	Ethernet, Manches- ter Converter	PLCC20	8020	156-6457-00
	Dual Asynchronous Receiver/Trans	PLCC44	2692	156-6276-00
	Multifunction Pe- ripheral	PLCC52	MC68901	156-6365-01
RS232	DUART	PLCC44	68681	156-6031-0X
Parallel Serial	RS232 CENTRONICS	FP44	8576	156-6459-00
SCSI	I/O Processor	QFP208	53C720	156-6811-00

Peripherals, Controllers: Supplier: TBD

Type	Notes	Package	Vendor #	Tek P/N
DRAM	4MB,20MHZ	PLCC68	8420	156-6095-00
DRAM	16MB, 25MHZ	PLCC68	8421	156-5980-00
Floppy		PLCC44	8477	156-XXXX-XX
GPIB		PLCC44	9914A	156-6223-00
GPIB		PLCC44	9914A	156-6223-01
SCSI	ASYNC	PLCC44	53C80	156-6291-00
SCSI			NCR53C710	156-6722-00
SCC	Ethernet	PLCC44	NCR85C30	156-6285-00

Surface Mount Components: Bipolar Power Transistors, General Purpose Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

NPN Bipolar Power Transistors – Supplier: Motorola

Vendor P/N	Pkg.	V_{CEO} (max) (V)	I_C (max) (A)	h_{FE}	@ I_C (A)	f_T (MHz)	Thru-hole Equiv.	Complement	Comments	Tek P/N
MJD44H11	TO-252/ DPAK	80	8.0	60 min	2.0	50	151-0426-00	151-5081-00		(none)
MJD112	TO-252/ DPAK	100	2.0	1k-12k	2.0	25		151-5042-00	Darlington	151-5033-00
MJD31C	TO-252/ DPAK	100	3.0	25 min	1.0	3.0	151-0464-xx 151-0476-xx	151-5044-00		151-5043-00

PNP Bipolar Power Transistors – Supplier: Motorola

Vendor P/N	Pkg.	V_{CEO} (max) (V)	I_C (max) (A)	h_{FE}	@ I_C (A)	f_T (MHz)	Thru-hole Equiv.	Complement	Comments	Tek P/N
MJD45H11	TO-252/ DPAK	80	8.0	60 min	2.0	40	151-0625-00	MJD44H11		151-5081-00
MJD117	TO-252/ DPAK	100	2.0	1k-12k	2.0	25		151-5033-00	Darlington	151-5042-00
MJD32C	TO-252/ DPAK	100	3.0	25 min	1.0	3.0	151-0462-xx 151-0482-xx	151-5043-00		151-5044-00

General Purpose Transistors (f_T 0 to 599 MHz) – Supplier: Motorola

Vendor P/N	Polarity	Package	V_{CEO} (max) (V)	I_C (max) (mA)	h_{FE}	@ I_C (mA)	f_T (MHz)	Thru-hole Equiv.	Added Info and Complement	Tek P/N
BCP68	NPN	SOT-223	20	1000	63-400	500	100		151-5077-00	151-5080-00
BCP69	PNP	SOT-223	20	1000	63-400	500	100		151-5080-00	151-5077-00
MMBT2222AL	NPN	SOT-23	40	600	100-300	150	300	151-0736-xx	151-5030-00	151-5021-00
MMBT2907AL	PNP	SOT-23	60	600	100-300	150	200	151-0164-xx	151-5021-00	151-5030-00
MMBT3906L	PNP	SOT-23	40	200	100-300	10	250	151-0188-xx	151-5001-00	151-5000-00
MMBT3904L	NPN	SOT-23	40	200	100-300	10	300	151-0190-xx	151-5000-00	151-5001-00
MMBT6427L	NPN	SOT-23	40	500	20k-200k	100	130	151-0254-xx	Darlington 151-5059-00	151-5053-00
MMBTA64L	PNP	SOT-23	30	500	20k-min	100	125	151-0435-xx	Darlington 151-5053-00	151-5059-00
PZT222A	NPN	SOT-223	40	600	100-300	150	300	151-0736-xx	PZT2907A	151-5082-01

Surface Mount Components: Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Medium Frequency RF Transistors (f_T 600 MHz to 1999 MHz) – Supplier: Motorola, NEC

Vendor P/N	Polar- ity	Package	V_{ceo} (max) (V)	I_c (max) (mA)	f_T (MHz)	@ I_c (mA) V_{ce}	C_{cb} (pF)	Thru-hole Equiv.	Complement	Tek P/N
MMBR5179L	NPN	SOT-23	12	50	900 min	5/6	1.0	151-0282-xx		151-5011-00
MMBTH10L	NPN	SOT-23	25	30	650 min	4/10	0.7	151-0711-xx	151-5016-00	151-5035-00
MMBTH81L	PNP	SOT-23	20	30	600 min	5/10	0.85	151-0712-xx	151-5035-00	151-5016-00
MRF5943	NPN	SO8.150	30	400	1200 min	35/15	2.5	151-0411-xx		151-5064-00
NE73433	NPN	SOT-23	14	50	1500 min	10/10	1.5			151-5034-00

High Frequency RF Transistors (f_T 2.0GHz and above) – Supplier: Motorola, NEC

Vendor P/N	Polarity	Package	V_{ceo} (max) (V)	I_c (max) (mA)	f_T (GHz)	@ I_c (mA)/ V_{ce}	C_{cb} (pF)	Thru-hole Equiv.	Tek P/N
BFR92A	NPN	SOT-23	15	25	3.0 min	14/10	.07		151-5060-00
MMBTH69L	PNP	SOT-23	15	30	2.0 min	10/10	0.35	151-0271-xx	151-5012-00
MMBR536L	PNP	SOT-23	10	30	5.5 typ	20/5	1.2		151-5055-00
MMBR571L	NPN	SOT-23	10	80	7.0 typ	50/5	1.0	151-0965-xx	151-5076-00
MMBR911L	NPN	SOT-23	12	60	6.0 typ	30/10	1.0	MPS911	151-5079-00
MRF8372	NPN	SO8.150	16	200	5.0 typ	75/10	2.5		151-5047-00
MRF5583	PNP	SO8.150	30	500	2.1 typ	35/15	5.0	151-0450-xx	151-5048-00
NE02133	NPN	SOT-23	12	70	4.5 typ	20/10	1.0		151-5008-00
NE68033	NPN	SOT-23	10	35	6.0 typ	20/10	1.0		151-5017-00
NE88933	PNP	SOT-23	12	50	3.0 min	15/5	3.0		151-5028-00

Saturated Switching Transistors – Supplier: Motorola

Vendor P/N	Polarity	Package	V_{ceo} (max) (V)	I_c (max) (mA)	t_{ON} (nS)	t_{OFF} (nS)	Thru-hole Equiv.	Tek P/N
MMBT2369L	NPN	SOT-23	15	200	12	18	151-0223-xx	151-5029-00
MMBT3640L	PNP	SOT-23	12	80	25	35	151-0199-xx, 151-0221-xx	151-5058-00

High Voltage Transistors (> than 100V) – Supplier: Motorola

Vendor P/N	Polar- ity	Package	V_{ceo} (max) (V)	I_c (max) (mA)	h_{FE}	@ I_c (mA)	f_T (MHz)	Thru-hole Equiv.	Added Info And Complement	Tek P/N
MMBT5401L	PNP	SOT-23	150	500	60-240	10	100	151-0350-xx	151-5027-00	151-5073-00
MMBT5551L	NPN	SOT-23	160	600	80-250	10	100	151-0347-xx	151-5073-00	151-5027-00
MMBT6517L	NPN	SOT-23	350	500	30-200	30	40	151-0444-xx	151-5052-00	151-5050-00
MMBT6520L	PNP	SOT-23	350	500	30-200	30	40		151-5050-00	151-5052-00
PZTA42	NPN	SOT-223	300	500	40 min	30	50			151-5070-00

Surface Mount Components: Small Signal FETs, "Power" MOSFETs, Bipolar Transistor Arrays

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Small Signal FETs – Suppliers: Motorola, Siliconix

Vendor P/N	Part Description	Tek P/N
MMBF4392LT1	JFET,N-CH;5V,75MA,60 OHM,SWITCH;MMBF4392L,SOT-23,8MM T&R	151-5002-00
MMBF4416LT1	JFET,N-CH;6V,15MA,4.5MS;MMBF4416L,SOT-23,8MM T&R	151-5015-00
SST441-T1	JFET,N-CH;6V,30MA,4.5MS,MONOLITHIC DUAL;SST441,SO08.150,12MM T&R	151-5018-00
2N7002LT1	MOS,N-CH;60V,0.115A,7.5 OHM;2N7002,TO-236/SOT-23,8MM T&R	151-5066-00
MMBF4391LT1	JFET,N-CH;10V,150MA,30 OHM;MMBF4391L,TO-236/SOT-23,8MM T&R	151-5656-00

Small "Power" MOSFETs ($R_{ds(on)} > 5$ ohms) – Suppliers: Motorola, Siliconix

Vendor P/N	Polarity	Pkg.	V_{ds} (max) (V)	I_d (max) (mA)	$R_{ds(on)}$ (ohm)	Thru-hole Equiv.	Tek P/N
2N7002	N-CH	SOT-23	60	115	7.5	151-1121-01	151-5066-00
TP0610T	P-CH	SOT-23	60	120	10	151-1120-00	151-5075-00

N-Channel Power MOSFETs – Suppliers: Motorola, Siliconix, Harris

Vendor P/N	V_{ds} (max) (V)	I_d (max) (A)	$R_{ds(on)}$ (ohm)	Package	Comments	Tek P/N
Si9959DY	50	2.0	0.3	SO8.150	Dual	151-5074-00
MTD10N05E	50	10	0.1	TO-252/DPAK		151-5038-01
SMD25N05-45L	50	25	0.045	TO-252/DPAK	Logic level	151-5072-00
MTB75N05HD	50	75	0.0095	D2PAK	151-1302-00 is thru-hole equiv.	151-5089-00
Si9945DY	60	3.5	0.1/0.2	TO-252/DPAK	Dual; std/log. lvl.	151-5083-00
IRFR110	100	4.7	0.54	TO-252/DPAK		151-5086-00
IRFR220	200	4.8	0.8	TO-252/DPAK		151-5084-00

P-Channel Power MOSFETs – Suppliers: Motorola, Siliconix, Harris

Vendor P/N	V_{ds} (max) (V)	I_d (max) (A)	$R_{ds(on)}$ (ohm)	Package	Comments	Tek P/N
Si9405DY	20	3.8	0.1/0.16	SO8.150	Std/logic level	151-5078-00
Si9953DY	20	2.3	0.25/0.40	SO8.150	Dual; std/logic level	151-5090-00
Si9435DY	30	4.6	0.07/0.13	SO8.150	Std/logic level	151-5088-00
MTD5P06E	60	5.0	0.55	TO-252/DPAK		151-5045-00
MTD2955E	60	12	0.3	TO-252/DPAK		151-5071-00
IRFR9120	100	6.3	0.6	TO-252/DPAK		151-5087-00
IRFR9220	200	3.6	1.5	TO-252/DPAK		151-5085-00

Bipolar Transistor Arrays – Suppliers: Harris, Motorola, Analog Devices

Vendor P/N	Description	Package	Tek P/N
CA3127M	5 NPN, 15V, 20MA, 1GHZ, 16MM T&R	SO16.150	156-5242-01
MAT04FS	4 NPN, VBE & GAIN MATCH	SO14.150	156-6140-00

(Bipolar Transistor Arrays continued on page 24)

Surface Mount Components: Bipolar Transistor Arrays, Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Bipolar Transistor Arrays (cont.) – Suppliers: Harris, Motorola, Analog Devices

Vendor P/N	Description	Package	Tek P/N
MC1413D/ ULN2003D	7 NPN, DARLINGTON, COMMON Emitter, OC W/CLAMP DIODES	SO16.150	156-5291-00
MC3346D	5 NPN, (1)DIFF PAIR, (3)IND, 15V, 50MA, 300MHZ, AMPLIFIER, 16MM T&R	SO14.150	156-5116-01
MMPQ2222A	4 NPN, 40V, 500MA, 350 MHZ, AMPLIFIER, 16MM T&R	SO16.150	156-5438-01
MMPQ2907A	4 PNP, 50V, 600MA, 350 MHZ, AMPLIFIER, 16MM T&R	SO16.150	156-5439-01
MMPQ3725	4 NPN, 40V, 1.0A, SWITCHING, 16MM T&R	SO16.150	156-5843-01

General Purpose Bipolar Op-Amps – Suppliers: Motorola, National, TI, Harris

Vendor P/N	Qty.	Package	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	Thru-hole Equivalent	Additional Information	Tek P/N
CA3080M	single	SO8.150	5.0	5.0uA	2.0	50	156-0912-00	transconductance, 12mm T&R	156-5487-01
LM318D	single	SO8.150	10	200nA	15	50	156-0742-00	high slew rate	156-5257-00
LM324D	quad	SO14.150	7.0	250nA	1.0	0.5	156-0495-00	"single supply", Class B output stage	156-5096-00
LM358D	dual	SO8.150	7.0	250nA	1.0	0.5	156-0853-00	12mm T&R, "single supply", Class B out- put stage	156-5018-01
LM741CD	single	SO8.150	6.0	500nA	1.0	0.5	156-0067-00		156-6336-00
MC1458D	dual	SO8.150	6.0	500nA	1.0	0.5	156-0158-00	12mm T&R	156-5017-01
MC33178D	dual	SO8.150	3.0	500nA	5.0	2.0		12mm T&R, high out- put current	156-6256-01
MC34072AD	dual	SO8.150	4.0	500nA	4.5	10		"single supply", Class AB output stage	156-6391-00
MC34074D	quad	SO14.150	6.0	500nA	4.5	10		16mm T&R, "single supply", Class AB output stage	156-6067-01
NE5532D	dual	SO16.300	4.0	800nA	10	9.0	156-1272-00	low noise, high out- put current, audio specs	156-6706-00
NE5534D	single	SO8.150	4.0	1.5uA	10	13	156-1338-00	12mm T&R, low noise, high output current, audio specs	156-5095-01

General Purpose BiFET Op-Amps – Suppliers: Analog Devices, Burr-Brown, TI, Motorola

Vendor P/N	Qty.	Package	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	Thru-hole Equivalent	Additional Information	Tek P/N
AD712JR	dual	SO8.150	3.0	75pA	4.0	20		12mm T&R, low noise, audio specs	156-5854-01
MC34001D	single	SO8.150	10	200pA	3.0	13	156-1149-00	12mm T&R	156-5023-01
MC34182D	dual	SO8.150	3.0	100pA	4.0	10		12mm T&R, low power	156-5218-01

(General Purpose BiFET Op-Amps continued on page 25)

Surface Mount Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

General Purpose BiFET Op-Amps (cont.) – Suppliers: Analog Devices, Burr-Brown, TI, Motorola

Vendor P/N	Qty.	Package	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	Thru-hole Equivalent	Additional Information	Tek P/N
MC34184D	quad	SO14.150	10	100pA	4.0	10		16mm T&R, low power	156-5442-01
OPA404KU	quad	SO16.300	2.5	12pA	6.4	35	156-3377-00	24mm T&R, DI process	156-5565-01
OPA2604AU	dual	SO8.150	3.0	100pA	20	25		12mm T&R,low noise,high output current,audio specs	156-6716-01
TL072CD	dual	SO8.150	10	200pA	3.0	13	156-1191-00	12mm T&R	156-5138-01
TL074CD	quad	SO14.150	10	200pA	3.0	13	156-1200-00	16mm T&R	156-2051-01
TL074BCD	quad	SO14.150	3.0	200pA	3.0	13	156-4320-00	16mm T&R	156-5587-01
TLE2062CD	dual	SO8.150	5.0	2.0nA (OT)	1.8	3.4		low power, high output current	156-6296-00
TLE2064CD	quad	SO8.150	5.0	2.0nA (OT)	1.8	3.4		low power, high output current	156-6295-00

General Purpose CMOS Op-Amps – Suppliers: TI, National

Vendor P/N	Qty.	Package	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	Thru-hole Equivalent	Additional Information	Tek P/N
TLC271ACD	single	SO8.150	10	600pA (OT)	2.2	5.3	156-2469-00	selectable bias	156-5276-00
LMC6022IM	single	SO8.150	9.0	200pA (OT)	0.35	0.05		rail-rail output swing, ext temp range, micro-power	156-6804-00
TLC274CD	quad	SO14.150	10	600pA (OT)	2.2	5.3	156-2854-00		156-6509-00

Bipolar Precision (Vos < 2mV) Op-Amps – Suppliers: Motorola, TI, Linear Technology

Vendor P/N	Qty.	Package	Vos (uV)	dVos/dT (uV/C)	Ib (nA)	BW (MHz)	Thru-hole Equiv.	Additional Information	Tek P/N
LT1013DS8	dual	SO8.150	800	5.0	30	-	156-3095-00	12mm T&R, "single supply", very low power	156-5706-01
OP07CD	single	SO8.150	150	1.8	7.0	0.6	156-1582-00	16mm T&R	156-5082-01
MC33102D	dual	SO8.150	2000	1.0 typ	50/50 0	0.25/3.5		specs for "Sleep-mode/Awake-mode"	156-6519-00
OP27GS	single	SO8.150	100	1.8	80	8.0	156-1851-00	12mm T&R, low noise, high output drive, audio specs	156-5690-01

Surface Mount Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

CMOS Precision ($V_{os} < 2\text{mV}$) Op-Amps – Supplier: TI

Vendor P/N	Qty.	Package	V_{os} (μV)	dV_{os}/dT ($\mu\text{V}/\text{C}$)	I_b (nA)	BW (MHz)	Thru-hole Equiv.	Additional Information	Tek P/N
TLC2652AI-8D	single	SO8.150	1.0	0.03	150pA (OT)	1.9	156-3977-00	Chopper sta- bilized, ex- tended temp range	156-6799-00
TLC27M9CD	quad	SO14.150	1200	2.1 typ	600pA (OT)	0.635		16mm T&R	156-5433-01

BiFET Precision ($V_{os} < 2\text{mV}$) Op-Amps – Suppliers: Motorola, Linear Technology

Vendor P/N	Qty.	Pkg.	V_{os} (mV)	dV_{os}/dT (uV/C)	I_b (pA)	BW (MHz)	SR (V/uS)	Thru-hole Equiv.	Add. Info.	Tek P/N
LT1056CS8	single	SO8.150	0.8	12	50	5.5	14		premium LF356	156-5352-00
MC33282D	dual	SO8.150	2.0	-	200	30	15		12mm T&R, two- pole freq. comp	156-6279-01
MC33284D	quad	SO14.150	2.0	-	200	30	15		2-pole freq. comp.	156-6390-00
MC34081BD	single	SO8.150	2.0	-	200	8.0	25	156-3781-00	12mm T&R	156-5627-01

High Speed (Voltage Mode) Op-Amps – Suppliers: Analog Devices, Elantec, National, Maxim

Vendor P/N	Qty.	Package	V_{os} (mV)	I_b (uA)	BW (MHz)	SR (V/uS)	Max. Oper. Supply Volt.	Thru-hole Equiv.	Add. Info.	Tek P/N
AD847JR	single	SO8.150	1.0	6.6	50	300	+/-15	156-3764-00	unity gain stable, drives any capacitive load	156-6643-00
EL2073CS	single	SO8.150	1.5	6.0	200	250	+/-5		unity gain stable, video specs, 50mA min output cur- rent	156-6603-00
LM6361M	single	SO8.150	20	5.0	50	300	+/-15	156-3226-00	12mm T&R, unity gain stable	156-5853-01
NE5539D	single	SO14.150	150	3.0	110	600	+/-8		ext freq comp	156-5467-00
MAX428CSA	dual	SO8.150	12	1.1	100	90	+/-5		12mm T&R, +3/-2 gain stable, 40mA min output cur- rent	156-6377-01
MAX442CSA	single	SO8.150	7.0	2.0	140	250	+/-5		12mm T&R, w/2-input mux, 30mA output current	156-6645-01

Surface Mount Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM.

New adds to Rev 7.0 are shaded in gray.

High Speed Current Feedback Op-Amps – Suppliers: Analog Devices, Comlinear, Burr-Brown, Elantec, Linear Technology

Vendor P/N	Package	Vos (mV)	Ib (+in/-in) (μ A)	BW (MHz)	SR (V/ μ S)	Max. Oper. Supply Volt.	Gain Range	Thru-hole Equiv.	Add. Info.	Tek P/N
AD810AR	SO8.150	3.0	5.0/10	40	1000	+/-15	(+/-)1 to 10		with disable	156-6735-00
AD9617JR	SO8.150	2.2	35/50	190	1400	+/-5	(+/-)1 to 40	156-4024-00	12mm T&R	156-6297-01
CLC400AJE	SO8.150	5.0	20/20	200	700	+/-5	(+/-)1 to 8	156-3432-00		156-6073-00
CLC404AJE	SO8.150	5.0	22/18	175	2600	+/-5	+2 to +21, -1 to -20	156-3962-00	12mA supply current	156-6504-00
CLC410AJE/EL2070CS	SO8.150	5.0	20/20	200	700	+/-5	(+/-)1 to 8		with disable	156-6647-00
CLC501AJE	SO8.150	3.0	25/30	110	1200	+/-5	+8 to +64		output clamping, characterized @ gain of +32	156-6074-00
CLC502AJE	SO8.150	1.6	25/30	150	800	+/-5	(+/-)1 to 8	156-4137-00	output clamping, 25nS to 0.01% settling time	156-6570-00
EL2120CS	SO8.150	20	15/40	100	750	+/-15	(+/-)1 to 10		12mm T&R, with disable	156-6415-01
LT1228CS8	SO8.150	10	3.0/65	100	500	+/-15	(+/-)1 to 100		trans-conductance dc gain control	156-6602-00
OPA603AU	SO16.300	5.0	5.0/25	100	1000	+/-15	(+/-)1 to 100	156-4170-00	150mA peak output current	156-6560-00

Surface Mount Components: Converters

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Converters

8-bit D/A Converters – Suppliers: Analog Devices, Maxim

Vendor P/N	Description	Package	Tek P/N
AD7224LR	CMOS, 7US, VOLTAGE OUT, MPU COMPATIBLE	SO18.300	156-5842-00
AD7569JP	CMOS, A/D & D/A, 2US A/D, 1US D/A, VOLTAGE OUT, MPU COMPATIBLE	PLCC28-1	156-5778-00
DAC08ED	85NS, CURRENT OUT, MULTIPLYING, 16MM T&R	SO16.150	156-5043-01
DAC8840FS	CMOS, OCTAL, VOLTAGE OUT, SEPARATE VREF INPUTS, SERIAL DATA INPUT	SO24.300	156-6341-00
MAX529CWG	BICMOS, VOLTAGE OUTPUT, 8 CHANNELS, SERIAL DATA INPUT, 24MM T&R	SO24.300	156-6648-01

10-bit D/A Converters – Supplier: Fujitsu

Vendor P/N	Description	Package	Tek P/N
MB40760PF	60MHZ, CURRENT OUTPUT, LATCHED, LOW POWER, W/REFERENCE	SO20M.200	156-6561-00

12-bit D/A Converters – Suppliers: Analog Devices, IMP

Vendor P/N	Description	Package	Tek P/N
AD667JP	3US, VOLTAGE OUT, MPU COMPATIBLE, W/REFERENCE, 24MM T&R	PLCC28-1	156-5832-01
AD7237JR	CMOS, DUAL, US, VOLTAGE OUT, 8 BIT MPU COMPATIBLE, REFERENCE, 24MM T&R	SO24.300	156-6425-01
AD7541AKR	CMOS, CURRENT OUT, MULTIPLYING	SO18.300	156-6709-00
AD7543KR	CMOS, 2.0US, CURRENT OUT, SERIAL DATA INPUT, 16MM T&R	SO16.300	156-6011-01
AD7545AKP	CMOS, CURRENT OUT, MPU COMPATIBLE, MULTIPLYING	PLCC20	156-6282-00
AD7547KP	CMOS, DUAL, CURRENT OUT, MPU COMPATIBLE, PARALLEL LOADING, MULTIPLYING, 24MM T&R	PLCC28-1	156-5591-01
AD7549JP	CMOS, DUAL, CURRENT OUT, 1.5US, 4 BIT DATA BUS INPUT, MPU COMPATIBLE, MULTIPLYING	PLCC20	156-5300-00
AD7549KP	CMOS, DUAL, CURRENT OUT, MPU COMPATIBLE 4 BIT DATA BUS INPUT, MULTIPLYING	PLCC20	156-6089-01
AD9712BAP	100MHZ, ECL INPUT, W/LATCHES, CURRENT OUT, W/REFERENCE	PLCC28-1	156-6024-00
AD9713BAP	80MHZ, TTL INPUT, W/LATCHES, CURRENT OUT, W/REFERENCE	PLCC28-1	156-6345-00
DAC312HS/ AM6012D	300NS, CURRENT OUT, MULTIPLYING, 24MM T&R	SO20.300	156-5157-01
DAC8221HS	CMOS, DUAL, 1.0US, CURRENT OUT, MPU COMPATIBLE, MULTIPLYING	SO24.300	156-5987-00
I10412	CMOS, VOLTAGE OUT, 16 CHANNELS, SERIAL INPUT, DACULATOR	SO28.300	156-6224-00
I10412	CMOS, VOLTAGE OUT, 16 CHANNELS, SERIAL INPUT, DACULATOR, 24MM T&R	SO28.300	156-6224-01

Surface Mount Components: Converters

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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14-bit D/A Converters – Supplier: Analog Devices

Vendor P/N	Description	Package	Tek P/N
AD7534JP	CMOS,14 BIT,1.5US,CURRENT OUT,MPU COMPATIBLE,BYTE LOADING	PLCC20	156-5208-00
AD7536JP	CMOS,14 BIT,1.5US,CURRENT OUT,MPU COMPATIBLE	PLCC28-1	156-5592-00
AD7840KP	CMOS,14 BIT,4.0NS,VOLTAGE OUT,PARALLEL/SERIAL INPUT,MPU COMPATIBLE,REFERENCE	PLCC28-1	156-6289-00

16, 18-bit D/A Converters – Supplier: Analog Devices

Vendor P/N	Description	Package	Tek P/N
AD569JP	BIMOS, 16 BIT, 5US, VOLTAGE OUTPUT, 8/16 BIT MPU BUS COMPATIBLE	PLCC28-1	156-5855-00
AD1866R	CMOS, DUAL 16 BIT, 95DB S/N, AUDIO	SO16.150	156-6703-00
CS4320-KS	CMOS, DUAL 18-BIT DIGITAL-AUDIO CONVERSION	SO28.300	156-6857-00

Converters, A/D – Supplier: Analog Devices, National, Sony

# of Bits	Description	Package	Vendor P/N	Tek P/N
8-BIT	40US,SAR,W/8 CHAN MUX	PLCC28-1	0848	156-5849-00
8-BIT	20MSPS,FLASH	SO24M.200	1175A	156-5909-01
8-BIT	2US A/D,1US D/A,VOLTAGE OUT,MPU COMPATIBLE	PLCC28-1	AD7569JP	156-5778-00
12-BIT	10US,SAR,WITH T&H,95MW	PLCC28-1	AD7870	156-6184-00

Converters, D/A – Supplier: Analog Devices, Brooktree

# of Bits	Description	Package	Vendor P/N	Tek P/N
6-BIT	TRIPLE,35MHZ,256 X 18 COLOR PALETTE MEMORY,OVERLAY REGISTERS	PLCC44	BT471KPJ-35	156-6167-01
8-BIT	CURRENT OUT,MULTIPLYING	SO16.150	DAC08ED	156-5043-01
8-BIT	QUAD,VOLTAGE OUT,MPU COMPATIBLE,PARALLEL BUS	PLCC20	AD7226KP	156-5360-01
8-BIT	DUAL,200NS,CURRENT OUT MPU COMPATIBLE, MULTIPLYING	PLCC20	AD7528JP	156-5435-01
12-BIT	300NS,MULTIPLYING	SO20.300	DAC312HS AM6012D	156-5157-01
12-BIT	DUAL,CURRENT OUT MPU COMPATIBLE,PARALLEL LOADING,MULTIPLYING	PLCC28-1	AD7547KP	156-5591-01
12-BIT	3US,VOLTAGE OUT,MPU COMPATIBLE,REFERENCE	PLCC28-1	AD667JP	156-5832-01
12-BIT	2.0US,CURRENT OUT,SERIAL DATA INPUT	SO16.300	AD7543KR	156-6011-01
12-BIT	DUAL,CURRENT OUT,MPU COMPATIBLE,NIBBLE LOADING, MULTIPLYING	PLCC20	AD7549KP	156-6089-01
12-BIT	CURRENT OUT,MPU COMPATIBLE,MULTIPLYING	PLCC20	AD7545AKP	156-6282-00

Surface Mount Components: CMOS RAMDACs For Video Displays, Analog Switches

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

CMOS RAMDACs for Video Displays – Suppliers: Analog Devices, Brooktree, TI

Vendor P/N	Description	Package	Tek P/N
BT457KPJ135	8 BIT, 135 MHZ, 256 X 8 MONOCHROME PALETTE, OVERLAY REGISTERS	PLCC84	156-6088-00
BT458LPJ110	TRIPLE 8 BIT, 110MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS	PLCC84	156-6287-00
BT458LPJ135	TRIPLE 8 BIT, 135MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS	PLCC84	156-6288-00
BT471KPJ-35	TRIPLE 6 BIT, 35MHZ, 256 X 18 COLOR PALETTE, OVERLAY REGISTERS, 32MM T&R	PLCC44	156-6167-01
BT477KPJ80	TRIPLE 8 BIT, 80MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS, W/REFERENCE	PLCC44	156-6382-00
BT478KPJ-80	TRIPLE 8 BIT, 80MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS	PLCC44	156-6259-00
BT885KHF-135	TRIPLE 8 BIT, 135MHZ, MIXED CCIR601 VIDEO/ GRAPHICS, CHROMA KEY, REFERENCE	PQFP160	156-6878-00
TLC34074-135FN	TRIPLE 8 BIT, 135MHZ, MONOCHROME GREY SCALE	PLCC84	156-6753-00
TLC34075A-85FN	TRIPLE 8 BIT, 85MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS, VGA MUX	PLCC84	156-6307-00
TLC34075A-110FN	TRIPLE 8 BIT, 110MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS, VGA MUX	PLCC84	156-6593-00
TLC34075A-135FN	TRIPLE 8 BIT, 135MHZ, 256 X 24 COLOR PALETTE, OVERLAY REGISTERS, VGA MUX	PLCC84	156-6444-00

Analog Switches – Suppliers: Siliconix, Philips

Vendor P/N	Function	Analog In-put Range (V)	R _(on) (ohm)	Process	Package	Thru-Hole P/N	Tek P/N
DG403DY	Dual SPDT	+/-15	45	Si-gate CMOS	SO16.150	156-4038-00	156-6707-00
DG405DY	Dual DPST NO	+/-15	45	Si-gate CMOS	SO16.150	156-3166-00	156-6715-00
DG411DY	Quad SPST NC	+/-15	35	Si-gate CMOS	SO16.150	DG411DJ	156-6082-01
DG412DY	Quad SPST NO	+/-15	35	Si-gate CMOS	SO16.150	156-4412-00	156-6699-00
DG444DY	Quad SPST NC	+/-15	85	Si-gate CMOS	SO16.150	156-3972-00	156-6059-01
DG540DN	Quad video "T"-sw.	+8~-5	60	DMOS/CMOS	PLCC20	DG540DJ	156-6740-00
DG641	Quad SPST NC	+8~-5	15	DMOS/CMOS	SO16.150	DG641DJ	156-6620-00
SD5400CY	Quad DMOS FETs	+/-10	70	DMOS	SO14.150	156-1303-00	156-5282-00
74HCT4316N	Quad SPST NC	+/-5	170	HCT CMOS	SO16.150	74HCT4316D	156-5528-00

Surface Mount Components: Analog Multiplexers, Differential/Instrumentation Amplifiers, Audio Power Amplifiers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Analog Multiplexers – Suppliers: Siliconix, Philips, Motorola

Vendor P/N	Function	Analog In-put Range (V)	R _(on) (ohm)	Process	Package	Thru-Hole P/N	Tek P/N
DG408DY	Dual 4-ch	+/-15	100	Si-gate CMOS	SO16.150	156-3978-00	156-6311-00
DG409DY	Dual 4-ch	+/-15	100	Si-gate CMOS	SO16.150	DG409DJ	156-6638-00
MAX310CWN	Single 8-ch video	+12~-15	250	CMOS	SO18.300	156-3171-00	156-6250-00
MC14051BD	Single 8-ch	+/-7.5	280	M-gate CMOS	SO16.150	156-0513-00	156-5097-01
MC14052BD	Dual 4-ch	+/-7.5	280	M-gate CMOS	SO16.150	156-0514-00	156-5570-00
MC14053BD	Triple 2-ch	+/-7.5	280	M-gate CMOS	SO16.150	156-0515-00	156-5571-00
MUX08FS	Single 8-ch	+/-10	400	BiFET	SO16.150	MUX08FP	156-5532-01
74HC4051D	Single 8-ch	+/-5	120	HCMOS	SO16.150	156-2605-00	156-5050-01
74HC5052D	Dual 4-ch	+/-5	120	HCMOS	SO16.150	156-2476-00	156-5120-01
74HC4053D	Triple 2-ch	+/-5	120	HCMOS	SO16.150	156-2571-00	156-5073-01

Differential/Instrumentation Amplifiers

Vendor P/N	Description	Package	Vendor	Tek P/N
CA3028AM	DIFFERENTIAL	SO8.150	Harris	156-5779-00
CA3054M	DUAL INDEPENDENT DIFFERENTIAL AMPLIFIERS	SO14.150	Harris	156-5837-00
CLC522AJE	DIFFERENTIAL INPUT, SINGLE OUTPUT, GAIN CONTROL, 160MHZ, 40DB AGC RANGE	SO14.150	Comlinear	156-6503-00
INA105KU	DIFFERENTIAL, UNITY GAIN, 12MM T&R	SO8.150	Burr-Brown	156-5431-01
MAX436CSD	TRANSCONDUCTANCE, DIFFERENTIAL INPUT, 275MHZ. CURRENT OUTPUT	SO14.150	Maxim	156-6644-00
NE592D	DIFFERENTIAL VIDEO	SO14.150	TI	156-5638-00
SSM2142S	SINGLE ENDED INPUT, BALANCED DIFFERENTIAL OUTPUT, 6DB GAIN	SO16.150	Analog Devices	156-6720-00

Audio Power Amplifiers

Vendor P/N	Description	Package	Vendor	Tek P/N
LM386M-1	0.25W AUDIO POWER AMPLIFIER	SO8.150	National	156-6704-00

Surface Mount Components: RF/Microwave Gain Blocks, RF Mixers, FM IF/Detectors, Log Amps, Misc. Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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RF/Microwave Gain Blocks

Vendor P/N	Description	Package	Vendor	Tek P/N
MSA-0186	MICROWAVE, 18DB GAIN, 1.0GHZ	4 pin 85 mil X w/ SMT leadform	Hewlett-Packard (Avantek)	156-6153-00
MSA-0386	MICROWAVE, 12DB GAIN, 2.5GHZ	4 pin 85 mil X w/ SMT leadform	Hewlett-Packard (Avantek)	156-6072-00
MSA-0486	MICROWAVE, 8DB GAIN, 3.2GHZ	4 pin 85 mil X w/ SMT leadform	Hewlett-Packard (Avantek)	156-5851-00
MSA-0711	MICROWAVE, 12 DB GAIN, 1.9GHZ	SOT-143, 8mm T&R	Hewlett-Packard (Avantek)	156-6564-01
MSA-0886	MICROWAVE, 23DB GAIN, 1.0GHZ	4 pin 85 mil X w/ SMT leadform	Hewlett-Packard (Avantek)	156-6119-00
MSA-1105	MICROWAVE, 10DB GAIN, 1.3GHZ, WIDE DYNAMIC RANGE	4 pin 145 mil X w/ SMT leadform	Hewlett-Packard (Avantek)	156-6393-00
NE5205AD	RF AMP, 20DB GAIN, 600MHZ	SO8.150	Philips	156-5280-00
UPC1675G	MICROWAVE, 12DB GAIN, 1.9GHZ	non-std SOT-143	NEC	156-5922-00
UPC1678G	MICROWAVE, 23DB GAIN, 1.9GHZ	SO8.175	NEC	156-5918-00

RF Mixers

Vendor P/N	Description	Package	Vendor	Tek P/N
NE602AD	DOUBLE-BALANCED MIXER AND OSCILLATOR	SO8.150	Philips	156-6868-00

FM IF/ Detectors

Vendor P/N	Description	Package	Vendor	Tek P/N
MC13055D	FM IF/DETECTOR, FSK DATA SHAPER, W/RSSI	SO16.150	Motorola	156-6666-00

Log Amps

Vendor P/N	Description	Package	Vendor	Tek P/N
AD606JR	80DB DYNAMIC RANGE, 50 MHZ LIMITING, RSSI	SO16.150	Analog Devices	156-6894-00
AD640JP	LOGARITHMIC, DC COUPLED, 350 MHZ	PLCC20	Analog Devices	156-6090-00

Misc. Amps

Vendor P/N	Description	Package	Vendor	Tek P/N
AD600JR	DUAL, VARIABLE GAIN, 0 TO +40DB, DB LINEAR GAIN RESPONSE, 35MHZ	SO16.300	Analog Devices	156-6565-00
AD602JR	DUAL, VARIABLE GAIN, -10 TO +30DB, DB LINEAR GAIN RESPONSE, 35MHZ	SO16.300	Analog Devices	156-6745-00
EL2090CM	100MHZ, CURRENT FEEDBACK, SAMPLE/HOLD, VIDEO DC RESTORATION	SO16.300	Elantec	156-6407-01
SSM2018S	VOLTAGE CONTROLLED AMPLIFIER (VCA), AUDIO	SO16.300	Analog Devices	156-6705-00

Surface Mount Components: Comparators, Video Subsystems, Analog Multipliers, Timers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Comparators

Vendor P/N	Description	Package	Vendor	Tek P/N
BT687KS	DUAL, ECL, 1.8NS, LATCHED	SO16.150	Brooktree	156-6436-00
LM311D	OPEN COLLECTOR, 200NS, 12mm T&R	SO8.150	TI	156-5000-01
LM319D	DUAL, OPEN COLLECTOR, 80NS	SO14.150	Philips	156-5119-00
LM339D	QUAD, SINGLE SUPPLY, 16MM T&R	SO14.150	TI	156-5262-01
LM393D	DUAL, SINGLE SUPPLY, 12MM T&R	SO8.150	TI	156-5019-01
NE522D	DUAL, DIFFERENTIAL INPUT	SO14.150	Philips	156-5241-00
NE529D/ LM361M	TTL/ECL OUTPUT, 22NS	SO14.150	Philips	156-5273-00
MC10E1651FN	DUAL,ECL,850PS,W/LATCH;	PLCC20	Motorola	156-6271-00
MC10E1652FN	DUAL, ECL, 850PS, W/LATCH, ADJ HYSTERESIS	PLCC20	Motorola	156-6537-00
TLC372CD	DUAL, CMOS, 1.0US, SINGLE SUPPLY, OPEN DRAIN, 12MM T&R	SO8.150	TI	156-5434-01
TLC374CD	QUAD, CMOS, OPEN DRAIN	SO14.150	TI	156-6508-00

Video Subsystems – Suppliers: Motorola, National, Philips, Brooktree

Vendor P/N	Description	Package	Tek P/N
EL4581CS	SYNC SEPARATOR, ADVANCED VERTICAL DECODING	SO8.150	156-6891-00
MC1377DW	CHROMA RGB TO PAL/NTSC ENCODER	SO20.300	156-6741-00
LM1881M	SYNC SEPARATOR, 12MM T&R	SO8.150	156-5694-01
SAA1101T	CMOS, SYNC GENERATOR, NTSC, PAL, SECAM	S028.300	156-6739-00
BT812KPF	NTSC/PAL OR Y/C TO RGB/YCRCB DIGITAL DATA DECODER	PQFP160	156-6877-00

Analog Multipliers – Suppliers: Analog Devices, Linear Technology

Vendor P/N	Description	Package	Tek P/N
AD834JR	FOUR QUADRANT, 500MHZ	SO8.150	156-6141-00
MC1495D	FOUR QUADRANT	SO14.150	156-6404-00
MC1496D	BALANCED, MODULATOR/DEMODULATOR, 16MM T&R	SO14.150	156-5136-01

Timers – Supplier: TI

Vendor P/N	Description	Package	Tek P/N
NE556D	DUAL	SO14.150	156-5277-00
TLC555CD	CMOS,12MM T&R	SO8.150	156-5726-01



Surface Mount Components: Misc. Linear Functions, PLLs & Frequency Synthesizers, MPU Reset Generators, Nonvolatile CMOS RAM Battery Backup Controllers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Misc. Linear Functions – Suppliers: Analog Devices, Linear Technology, National, Motorola, Teledyne

Vendor P/N	Description	Package	Tek P/N
AD736JR	TRUE RMS-TO DC CONVERTER, 12MM T&R	SO8.150	156-5954-01
LTC1062CS	CMOS, ACTIVE FILTER, 5TH ORDER LOW PASS, 16MM T&R	SO16.300	156-5491-01
LM35DM	TEMP SENSOR, VOLTAGE OUT, DEG CELSIUS CALIBRATION, 12MM T&R	SO8.150	156-6596-01
MCCS14223 5DW	18-BIT SWITCHABLE ACTIVE SCSI BUS TERM, 10 OHM/BIT, 24MM T&R	SO24.300	156-6628-01
TC426COA	POWER MOSFET GATE DRIVER, DUAL, INVERTING OUTPUTS	SO8.150	156-5883-00

PLLs and Frequency Synthesizers – Suppliers: Motorola, ICS, MicroLinear, Qualcomm

Vendor P/N	Description	Package	Tek P/N
ICS2494AM	CMOS, FREQ SYNTH, VIDEO CLOCK GENERATOR, W/CPU CLOCK GEN, 10MHZ IN, 16 VIDEO CLK, 4 CPU CLK OUT	SO20.300	156-6580-00
ICS2595M	CMOS, FREQ SYNTH, VIDEO CLOCK GENERATOR, PROGRAMMABLE, W/CPU CLOCK GEN, 16 VIDEO CLK, 4 CPU CLK OUT	SO20.300	156-6884-00
MC14046BDW	CMOS, PLL, 16MM T&R	SO16.300	156-5517-01
ML2036CS	CMOS, WAVEFORM GENERATOR, DIGITALLY PROGRAMMABLE SINE WAVE GENERATOR, DC-50KHZ	SO16.300	156-6518-00
Q2334C-50N	CMOS, FREQ SYNTH, DIRECT DIGITAL SYNTHESIZER, DUAL, 32 BIT PHASE ACCUM, 12 BIT OUT, 50MHZ	PLCC68	156-6605-00

MPU Reset Generators – Suppliers: TI, Motorola, Dallas, Maxim

Vendor P/N	Description	Package	Tek P/N
DS1233Z-10	CMOS, 5V, 10%, 350MSRESET TIME, 12MM T&R	SOT-223	156-6481-01
DS1259SN	CMOS, BATTERY BACKUP MANAGEMENT SYSTEM, EXT TEMP RANGE, 16MM T&R	SO16.300	156-6152-01
MAX695CWE	CMOS, WATCHDOG TIMER, BATTERY BACKUP, UV DETECT, 16MM T&R	SO16.300	156-6218-01
MAX701CSA	CMOS, COMPLEMENTARY RESET OUTPUTS	SO8.150	156-6859-00
MAX708CSA	CMOS, COMPLEMENTARY RESET OUTPUTS, POWER FAIL MONITOR	SO8.150	156-6865-00
MAX1232CSA	CMOS, 5V, MPU WATCHDOG TIMER	SO8.150	156-6665-00
TL7705ACD	5V, 12MM T&R	SO8.150	156-5489-01
MC34164D-5R1	MICROPOWER, 5V, 12MM T&R	SO8.150	156-6101-01

Nonvolatile CMOS RAM Battery Backup Controllers – Supplier: Dallas

Vendor P/N	Description	Package	Tek P/N
DS1210S	SAFETY CONTROLLED	SO16.300	156-6344-00
DS1218S		SO8.150	156-6851-00
DS1211S	SAFETY CONTROLLED, W/3-8 DECODER, 24MM T&R	SO20.300	156-6138-01
DS1221S	SAFETY CONTROLLED, W/2-4 DECODER	SO16.300	156-6683-00

Surface Mount Components: Linear Voltage Regulators, Low Dropout Linear Voltage Regulators

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Linear Voltage Regulators – Suppliers: Motorola, TI, National, Maxim

Vendor P/N	Output Voltage (V)	Output Current (A)	Tolerance (%)	Package	Additional Info	Thru-Hole P/N	Tek P/N
MC78L05ACD	5.0	0.1	5	SO8.150	12mm T&R	156-0991-02	156-5298-01
MC78M05CDT	5.0	0.5	4	TO-252/DPAK	16mm T&R		156-6399-01
MC78L12ACD	12	0.1	5	SO8.150		156-2735-00	156-6035-00
MC78M12CDT	12	0.5	4	TO-252/DPAK			156-5677-00
MC78M15CDT	15	0.5	4	TO-252/DPAK			156-5900-00
LM317MDT	ADJ	0.5	4	TO-252/DPAK	16mm T&R		156-6183-01
LM317LM	ADJ	0.1	4	SO8.150	12mm T&R		156-5714-01
ICL7663SCBA	ADJ	0.05	7.7	SO8.150	Shutdown, upwr		156-6033-00
LP2951CM	ADJ	0.1	2	SO8.150	Shutdown, 12mm T&R	156-3462-00	156-5441-01
LM723CM	ADJ	0.1	5	SO14.150	User-set cur- rent limit	156-0071-00	156-6281-00
MAX666ESA	5.0/ADJ	0.04	5.0	SO8.150	Low battery de- tect, upower		156-6524-00
TL431CD	ADJ	0.1	2.2	SO8.150	Shunt, 12mm T&R	156-1631-01	156-5297-01
MC79L05ACD	-5.0	0.1	5	SO8.150		156-1150-01	156-5299-01
MC79M05CDT	-5.0	0.5	4	TO-252/DPAK			156-5730-00
MC79M12CDT	-12	0.5	4	TO-252/DPAK	16mm T&R		156-5674-01
MC79M15CDT	-15	0.5	4	TO-252/DPAK			156-5901-00
LM337LM	-ADJ	0.1	4	SO8.150			156-5217-00

Low Dropout Linear Voltage Regulators – Supplier: National

Vendor P/N	Output Voltage (V)	Output Current (A)	Tolerance (%)	Package	Additional Info	Thru-Hole P/N	Tek P/N
LM2940CT-5.0	5.0	1.0	2	TO-220 SMT		156-4178-00	156-6326-00
LM2990T-5.0	-5.0	1.0	2	TO-220 SMT			156-6327-00
LM2936M-5.0	5.0	0.05	3	SO8.150	Micropower		156-6864-00
MAX667CSA	5.0/ADJ	0.25	4.0	SO8.150	Low battery de- tect, upower, 12mm T&R		156-6858-01

Surface Mount Components: Switching Regulators Controllers, Switching Regulators

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray

Switching Regulator Controllers – Suppliers: Motorola, TI, Maxim

Vendor P/N	Operating Mode	Output Structure	Package	Additional Info	Thru-Hole P/N	Tek P/N
MC34129D	Current mode PWM	SE TP	SO14.150	Uses Sensefets, 16mm T&R		156-6623-01
TL594CD	Voltage mode PWM	PP OC/OE	SO16.150	16mm T&R	156-1627-00	156-6084-01
TL598CD	Voltage mode PWM	PP TP	SO16.150			156-6389-00
MAX715CWG	Current mode w/ on-chip LDO linear regs		SO24.300	CMOS, 24mm T&R, many misc. functions		156-6566-01
MAX786CAI	Dual PWM, current mode		TSOP28	+3.3/5.0V out, 2 linear standby out		156-6862-00
UC3871DW	Resonant fluorescent lamp driver		SO18.300	w/LCD bias supply		156-6883-00

Switching Regulators – Suppliers: National, Maxim, Linear Technology, Motorola

Vendor P/N	Operating Mode	Output Ratings	Package	Additional Info	Thru-Hole P/N	Tek P/N
LM2574M-5.0	Step-down/buck	5.0V/500mA	SO14.300		156-4395-00	156-6714-00
LM2574M-15	Step-down/buck	15V/500mA	SO14.300			156-6713-00
LM2574-ADJ	Step-down/buck	ADJ/500mA	SO14.300			156-6784-00
LM2575M-ADJ	Step-down/buck	ADJ/1.0A	SO24.300	24mm T&R		156-6571-01
LM3578AM	SE OC/OE gated oscillator	750mA switch	SO8.150			156-6863-00
LT1073CS8-05	Step-up	5.0V/40mA	SO8.150	1.15V min Vin, 12mm T&R		156-6731-01
LT1109CS8-12	Step-up	12V/60mA	SO8.150	Flash EPROM programmer, 12mm T&R		156-6572-01
LT1172CS	Multi-mode	1.25A switch	SO16.300		156-4358-00	156-6416-00
LT1174CS8	Step-down/buck	ADJ/540mA	SO8.150	12mm T&R		156-6672-01
MAX732CWE	Step-up	12V/200mA	SO16.300	Flash EPROM programmer		156-6676-00
MAX735CSA	Inverting, current mode	-5.0V/200mA	SO8.150	+4~6V Vin, shutdown		156-6853-00
MAX737CWE	Inverting, current mode	-15V/165mA	SO16.300	+4~5.5V Vin, shutdown		156-6861-00
MAX738CWE	Step-down/buck	5.0V/750mA	SO16.300			156-6520-00
MAX739CWE	+V in, -5V out	-5.0V/250mA	SO16.300	+4~11V Vin, 16mm T&R		156-6732-01
MC34063AD	SE OC/OE gated oscillator	1.0A switch	SO8.150	12mm T&R		156-5871-01

Surface Mount Components: Power & Motor Drivers, VCOs, Prescalers & Phase-Frequency Detectors, Voltage References, Battery Charger Controller, RAMDAC Clock Generator

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Power and Motor Drivers – Supplier: Allegro

Vendor P/N	Description	Package	Tek P/N
UCN5800L	BIMOS, 4 BIT PARALLEL INPUT, 50V/500MA SINK OUTPUTS	SO14.150	156-5671-00
UCN5841LW	BICMOS, 8 CHANNEL, SERIAL INPUT W/LATCHES, CURRENT SINK OUTPUT, 24MM T&R	SO18.300	156-6071-01
UCN5895EP	BIMOS, OCTAL SOURCE/RELAY DRIVER, 50V/250MA, SERIAL DATA INPUT, 16MM T&R	PLCC20	156-5436-01
UDN2916EB	DUAL FULL BRIDGE MOTOR DRIVERS, PWM, 45V/1.0A/DRIVER	PLCC44	156-6507-00
UDN2917EB	DUAL FULL BRIDGE MOTOR DRIVERS, PWM, 45V/1.75A/DRIVER	PLCC44	156-6506-00

VCOs, Prescalers and Phase-Frequency Detectors – Suppliers: Analog Devices, Fujitsu, Motorola, NEC

Vendor P/N	Description	Package	Tek P/N
AD9901KP	PHASE FREQ DETECTOR, 200MHZ, TTL/ECL/CMOS COMPATIBLE	PLCC-20	156-6396-00
MB501PF	ECL, PRESCALER, DIVIDE BY 64/65 OR 128/129, 1.1GHZ	SO8M-3	156-5899-00
MB503PF	ECL, PRESCALER, DIVIDE BY 16/17 OR 32/33, TWO MODULUS, 200MHZ	SO8M-3	156-5897-00
MB507PF	ECL, PRESCALER, 1.6GHZ, TWO MODULUS, DIVIDE BY 128/129 OR 256/257	SO8M-3	156-5777-00
MC1648FN	ECL, VCO, 200MHZ	PLCC20	156-5486-01
MC4044D	DUAL PHASE-FREQ DETECTOR	SO14.150	156-5518-00
MC12009FN	ECL, PRESCALER, DIVIDE BY 5/6, TWO MODULUS, 440MHZ, ECL AND TTL OUTPUTS	PLCC20	156-5977-00
MC12013FN	ECL, PRESCALER, DIVIDE BY 10/11, TWO MODULUS, 500MHZ, ECL AND TTL OUTPUTS	PLCC20	156-5978-00
MC12040FN	ECL, PHASE-FREQUENCY DETECTOR, 16MM T&R	PLCC20	156-5976-01
UPB584G	BIPOLAR, PRESCALER, DIVIDE BY 2, 2.5GHZ	SO8M-1	156-5923-00
UPB585G	BIPOLAR, PRESCALER, DIVIDE BY 4, 2.5GHZ	SO8M-1	156-5838-00

Voltage References – Suppliers: Analog Devices, Motorola, National

Vendor P/N	Description	Package	Tek P/N
LM385BM-1.2	1.2V, 1%, 150 PPM, SHUNT, MICROPOWER, 12MM T&R	SO8.150	156-6175-01
LM4040BIM-4.1	4.096V, 0.2%, 100 PPM, SHUNT, 12MM T&R	SO8.150	156-6733-01
LT1021DCS8-5	5.0V, 1.0%, 20PPM, SERIES, 12MM T&R	SO8.150	156-5492-01
LT1021DCS8-10	10V, 0.5%, 25 PPM, SERIES, 12MM T&R	SO8.150	156-5868-01
MC1403D	2.5V, 1.0%, 40 PPM, SERIES, 12MM T&R	SO8.150	156-5588-01

Surface Mount Components: Battery Charger Controller, RAMDAC Clock Generator

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Battery Charger Controllers – Suppliers: Unitrode

Vendor P/N	Description	Package	Tek P/N
MAX713CSE	CMOS, FAST BATTERY CHARGER, NI-CD, NI-MH BATTERIES	S016.300	156-6854-00
UC3906DW	SEALED LEAD ACID BATTERY CHARGER, 16MM T&R	S016.300	156-6626-01

RAMDAC Clock Generator – Supplier: Brooktree

Vendor P/N	Description	Package	Tek P/N
BT438KPJC	ECL,250MHZ,W/REFERENCE	PLCC28-1	156-6283-00

Surface Mount Components: LEDs, Zener Diodes, Diodes

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

LEDs – Supplier: Hewlett Packard

Color & Wavelength	Package	Intensity		Additional Information	Industry P/N	Tek P/N
		mcd	lf			
Red, 626nm	Subminiature	3.4	10mA	Yoke Id Bend 12mm T&R, Backside Mnt	HLMP-6305-T21	150-5009-00
Green, 569nm	Subminiature	4.2	10mA	Yoke Id Bend 12mm T&R, Backside Mnt	HLMP-6505-T21	150-5008-00
Yellow, 585nm	Subminiature	3.6	10mA	Yoke Id Bend 12mm T&R, Backside Mnt	HLMP-6405-T21	150-5012-00
Green, 569nm	Subminiature	4.2	10mA	Gull Wing Id Bend 12mm T&R, Topside Mnt	HLMP-6505-T11	150-5008-01

Zener Diodes, Signal – Supplier: Motorola

Vz	Izt mA	Zzt @ Izt Ohms	PD Watts	Additional Information	Industry P/N	Tek P/N
3.6V, 5%	20	24	225mW	SOT-23, 8MM T&R	MMBZ5227BL	152-5002-00
4.7V, 5%	20	19	225mW	SOT-23, 8MM T&R	MMBZ5230BL	152-5039-00
5.1V, 5%	20	17	225mW	SOT-23, 8MM T&R	MMBZ5231BL	152-5023-00
5.6V, 5%	20	11	225mW	SOT-23, 8MM T&R	MMBZ5232BL	152-5096-00

(Zener Diodes continued on page 39)

Surface Mount Components: LEDs, Zener Diodes, Diodes

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Zener Diodes, Signal (cont.) – Supplier: Motorola

Vz	Izt mA	Zzt @ Izt Ohms	PD Watts	Additional Information	Industry P/N	Tek P/N
6.2V, 5%	20	7	225mW	SOT-23, 8MM T&R	MMBZ5234BL	152-5011-00
7.5V, 5%	20	6	225mW	SOT-23, 8MM T&R	MMBZ5236BL	152-5015-00
10V, 5%	20	17	225mW	SOT-23, 8MM T&R	MMBZ5240BL	152-5077-00
12V, 5%	20	30	225mW	SOT-23, 8MM T&R	MMBZ5242BL	152-5072-00
15V, 5%	8.5	16	225mW	SOT-23, 8MM T&R	MMBZ5245BL	152-5063-00
20V, 5%	6.2	25	225mW	SOT-23, 8MM T&R	MMBZ5250BL	152-5046-00
30V, 5%	4.2	49	225mW	SOT-23, 8MM T&R	MMBZ5256BL	152-5082-00

Diodes, Signal – Supplier: National, Motorola

Vbr	If mA	Trr		Vf		Additional Information	Industry P/N	Tek P/N
		nS	@ If/Ir	V	@ If			
50V	400	8	200mA /200mA	1.1	100mA	Diode Array, 8 isolated SO-16 16MM T&R	MMAD1108	152-5071-00
100V	200	4	10mA/ 10mA	.74	10mA	SOT-23, Series Pair, 8mm T&R	MMBD1203	152-5018-00
100V	200	4	10mA/ 10mA	.74	10mA	SOT-23, Common Cathode, 8mm T&R	MMBD1204	152-5047-00
100V	200	4	10mA/ 10mA	.74	10mA	SOT-23, Common Anode, 8mm T&R	MMBD1205	152-5062-00

Diodes, Signal, Schottky – Supplier: Hewlett Packard, Motorola

Vbr	If mA	Ct pF	Test Conditions		Vf		Additional Information	Industry P/N	Tek P/N
			Vr	Freq	mV	@mA			
4V	10	1.0	0V	1Mhz	600	10	SOT-23, 8MM T&R	MMBD101L	152-5003-00
20V	35	1.2	0V	1Mhz	410	1	SOT-23, Dual, Common Anode 8MM T&R	HSMS-2813	152-0842-00
20V	35	1.2	0V	1Mhz	410	1	SOT-23, Dual, Series Pair 8MM T&R	HSMS-2812	152-0843-00
20V	35	1.2	0V	1Mhz	410	1	SOT-23, Dual, Common Cath. 8MM T&R	HSMS-2814	152-0845-00

Surface Mount Components: Signal Diodes, Rectifiers, Switches

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Diodes, Signal, Schottky (cont.) – Supplier: Hewlett Packard, Motorola

Vbr	If	Ct	Test Conditions		Vf		Additional	Industry	Tek
20V	35	1.2	0V	1Mhz	410	1	SOT-23, 8MM T&R	HSMS-2810	152-5045-00
30V	10	1.5	0V	1Mhz	600	10	SOT-23, 8MM T&R	MMBD301L	152-5038-00
70V	10	1.0	0V	1Mhz	1.2V	10	SOT-23, 8MM T&R	MMBD701L	152-5001-00
70V	10	2.0	0V	1Mhz	410	1	SOT-23, Dual Series Pair 8MM T&R	HSMS-2802	152-5042-00
70V	10	2.0	0V	1Mhz	410	1	SOT-23, Dual Unconnected Pair 8MM T&R	HSMS-2825	152-5048-00

Rectifiers – Supplier: Motorola

Vbr	If mA	Tr		Vf		Additional Information	Industry P/N	Tek P/N
		nS	@If/Ir	mV	@If			
50V	3A	25	.5/1 Amp	950	3A	DPAK 16MM T&R	MURD305	152-5032-00
600V	1	50	5/1 Amp	1.25V	1A	SMB DO-214 12MM T&R	MURS160T3	152-5086-00

Rectifiers, Schottky – Supplier: Motorola

Vbr	If A	Ifsm A	Vf		Additional Information	Industry P/N	Tek P/N
			mV	@If			
40V	1	40	600	1A	DO-214AA 12MM T&R	MBRS140	152-5027-00
40V	3	80	600	3A	DO-214AB 16MM T&R	MBRS340	152-5084-00
60V	6 total 3 per diode	75 per diode	700	3A	Dual Common Cathode, DPAK 16MM T&R	MBRD660CT	152-5069-00

Switches, Signal, Slide – Supplier: Grayhill

Config.	Contact Type	Contact Rating		Additional Information	Industry P/N	Tek P/N
		Current	Voltage			
SPST, 8 position	Gold over Nickel	150ma	30Vdc	Slide Actuated, Process Sealed, 44MM T & R	90HBW08S	260-5000-00

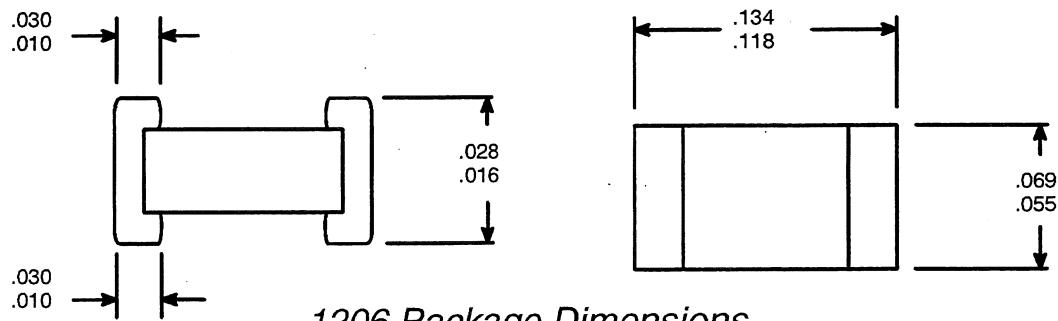
Surface Mount Components: Resistors

Al Lavalle, 627-6893, alllavalle@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Resistors, 1206 Package – Supplier: Dale

Value	Tek Part Number	Value	Tek Part Number	Value	Tek Part Number
0	321-5051-00	392	321-5013-00	18.2K	321-5033-00
10	321-5000-00	475	321-5014-00	20K	321-5090-00
12.1	321-5001-00	562	321-5015-00	22.1K	321-5034-00
15	321-5002-00	681	321-5016-00	27.4K	321-5035-00
18.2	321-5003-00	825	321-5017-00	33.2K	321-5036-00
22.1	321-5004-00	1.0K	321-5018-00	39.2K	321-5037-00
27.4	321-5005-00	1.21K	321-5019-00	47.5K	321-5038-00
33.2	321-5050-00	1.5K	321-5020-00	56.2K	321-5039-00
39.2	321-5042-00	1.82K	321-5021-00	68.1K	321-5040-00
47.5	321-5043-00	2.0K	321-5281-00	82.5K	321-5041-00
49.9	321-5194-00	2.21K	321-5022-00	100K	321-5047-00
56.2	321-5044-00	2.74K	321-5023-00	150K	321-5166-00
68.1	321-5045-00	3.32K	321-5024-00	200K	321-5064-00
75	321-5113-00	3.92K	321-5025-00	221K	321-5167-00
82.5	321-5046-00	4.75K	321-5026-00	332K	321-5048-00
100	321-5006-00	5.62K	321-5027-00	475K	321-5169-00
121	321-5007-00	6.81K	321-5028-00	562K	321-5171-00
150	321-5008-00	8.25K	321-5029-00	681K	321-5055-00
182	321-5009-00	10.0K	321-5030-00	825K	321-5170-00
221	321-5010-00	11K	321-5266-00	1M	321-5049-00
274	321-5011-00	12.1K	321-5031-00	10M	321-5208-00
332	321-5012-00	15.0K	321-5032-00		



Surface Mount Components: Capacitors

Al Lavalle, 627-6893, allavalle@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Ceramic Capacitors, 1206 Package – Supplier: AVX

Value	Tolerance	Voltage	Dielectric	Package	Tek P/N
1pF	±0.25pF	100V	NPO	0805	283-5012-00
3.3pF	±0.25pF	50V	NPO	0805	283-5021-00
10pF	5%	100V	NPO	1206	283-5195-00
15pF	5%	100V	NPO	1206	283-5187-00
22pF	5%	100V	NPO	1206	283-5107-00
33pF	5%	100V	NPO	1206	283-5201-00
47pF	5%	100V	NPO	1206	283-5196-00
68pF	5%	100V	NPO	1206	283-5108-00
100pF	5%	100V	NPO	1206	283-5188-00
220pF	5%	100V	NPO	1206	283-5189-00
330pF	5%	100V	NPO	1206	283-5197-00
390pF	5%	50V	NPO	1206	283-5026-00
470pF	5%	100V	NPO	1206	283-5106-00
680pF	5%	100V	NPO	1206	283-5109-00
1000pF	10%	100V	X7R	1206	283-5203-00
1000pF	10%	50V	NPO	0805	283-5173-00
2200pF	10%	50V	X7R	1206	283-5068-00
0.0033μF	5%	50V	NPO	1206	283-5265-00
0.0047μF	10%	50V	X7R	1206	283-5211-00
0.01μF	10%	50V	X7R	1206	283-5003-00
0.01μF	10%	50V	X7R	0805	283-5155-00
0.022μF	10%	50V	X7R	1206	283-5202-00
0.047μF	10%	50V	X7R	1206	283-5113-00
0.1μF	+80-20%	50V	Z5U	1206	283-5098-00
0.1μF	20%	50V	Z5U	0805	283-5225-00
0.1μF	10%	50V	X7R	1206	283-5114-00
0.22μF	+80-20%	50V	Z5U	1210	283-5101-00
.47μF	+80-20%	50V	Y5V	1812	283-5200-00
1.0μF	+80-20%	25V	Y5V	1206	283-5267-00

Aluminum Capacitors – Supplier: UCC

Value	Tolerance	Voltage	Size	Package	Tek P/N
3.3μF	20%	50V	5.7MM(0.224)	SMD	290-5035-01
10μF	20%	35V	5.7MM(0.224)	SMD	290-5037-01
22μF	20%	16V	5.7MM(0.224)	SMD	290-5036-01
33μF	20%	10V	5.7MM(0.224)	SMD	290-5034-01

Surface Mount Components: Tantalum Capacitors, Inductors

New adds to Rev 7.0 list are shaded gray

Tantalum Capacitors – Supplier: AVX/Kyocera – Al Lavalle, 627-6893, al.lavalle@tekig5.PEN.TEK.COM

Package is designated with the standard EIA code. The first two numbers specify the length in tenths of a mm (73 = 7.3mm) and the last two numbers specify the width in tenths of a mm (43 = 4.3mm).

Capacitance	Tolerance	Voltage	Size (EIA)	Tek P/N
0.47µF	20%	25V	3216+	290-5025-00
1µF	20%	35V	3528	290-5008-00
1.5µF	20%	16V	3216	290-5046-00
2.2µF	20%	20V	3528	290-5027-00
3.3µF	20%	25V	6032	290-5024-00
4.7µF	20%	10V	3528	290-5019-00
10µF	20%	20V	7343	290-5002-00
15µF	20%	25V	7343	290-5009-00

Inductors, Fixed – Jim Williamson, 627-2552, jimwi@tekig5.PEN.TEK.COM

Induct	Tol	Tek P/N	Idc	Q	Shape	Supplier	Supplier P/N
8NH	10%	108-5073-00	900mA	50	1210	COILCRAFT INC	1008CT-080XKBA
10NH	20%	108-5094-00	450mA	15	1210	TDK ELECTRONICS CORP	NL322522-010M
18NH	20%	108-5083-00	450mA	21	1210	TDK ELECTRONICS CORP	NL322522-018M
27NH	20%	108-5095-00	450mA	23	1210	TDK ELECTRONICS CORP	NL322522Y-027M
30NH	5%	108-5028-00	900mA	35	1210	COILCRAFT INC	1008CT-300XJBA
33NH	5%	108-5138-00	450mA	25	1210	COILCRAFT INC	NL322522T-033J
39NH	20%	108-5096-00	450mA	25	1210	TDK ELECTRONICS CORP	NL322522T-039M
47NH	5%	108-5090-00	450mA	26	1210	TDK ELECTRONICS CORP	NL322522T-047J
50NH	10%	108-5022-00	900mA	35	1210	COILCRAFT INC	1008CT-500XKBA
56NH	10%	108-5097-00	450mA	26	1210	TDK ELECTRONICS CORP	NL322522T-056K
100NH	5%	108-5101-00	450mA	28	1210	TDK ELECTRONICS CORP	NL322522T-R10J
150NH	5%	108-5032-00	450mA	30	1210	TDK ELECTRONICS CORP	NL322522T-R15J-3
180NH	5%	108-5092-00	450mA	30	1210	TDK ELECTRONICS CORP	NL322522T-R18-3
220NH	5%	108-5103-00	720mA	28	1210	COILCRAFT INC	1008CS-221-XJBA
270NH	10%	108-5113-00	450mA	30	1210	TDK ELECTRONICS CORP	NL322522T-R27K-3
330NH	5%	108-5115-00	450 mA	30	1210	TDK ELECTRONICS CORP	NL322522T-R33J-3
560NH	10%	108-5080-00	450mA	30	1210	TDK ELECTRONICS CORP	NL322522T-R56K
560NH	10%	108-5121-00	440mA	50	1210	TDK ELECTRONICS CORP	ACL3225S-R56KT
680NH	10%	108-5123-00	425mA	50	1210	TDK ELECTRONICS CORP	ACL3225S-R68KT
1.0UH	10%	108-5124-01	1050mA	10	1210	TDK ELECTRONICS CORP	NLC453232T-1R0K
1.5UH	10%	108-5119-00	360mA	60	1210	TDK ELECTRONICS CORP	ACL3225S-1R5K-T
1.8UH	5%	108-5133-00	350mA	30	1210	TDK ELECTRONICS CORP	NL322522T-1R8J

Surface Mount Components: Inductors, Potentiometers

New adds to Rev 7.0 list are shaded gray

Inductors, Fixed – Jim Williamson, 627-2552, jimwi@tekig5.PEN.TEK.COM

Induct	Tol	Tek P/N	Idc	Q	Shape	Supplier	Supplier P/N
1.8UH	10%	108-5122-00	330mA	60	1210	TDK ELECTRONICS CORP	ACL3225S-1R8K-T
2.2UH	5%	108-5134-00	320mA	30	1210	TDK ELECTRONICS CORP	NL322522T-2R2J
2.7UH	5%	108-5135-00	290mA	30	1210	TDK ELECTRONICS CORP	NL322522T-2R7J
2.7UH	10%	108-5075-00	300mA	60	1210	TDK ELECTRONICS CORP	ACL3225S-2R7K
3.3UH	5%	108-5136-00	260mA	30	1210	TDK ELECTRONICS CORP	NL322522T-3R3J
3.9UH	10%	108-5074-00	230mA	20	1210	TDK ELECTRONICS CORP	ACL3225S-3R9K
6.8UH	5%	108-5137-00	180mA	30	1210	TDK ELECTRONICS CORP	NL322522T-6R8J
10UH	10%	108-5129-00	550mA	10	1812	TDK ELECTRONICS CORP	NLC453232T-100K
22UH	5%	108-5130-00	11mA	20	1210	TDK ELECTRONICS CORP	NL322522T-220J-3
33UH	5%	108-5131-00	70mA	30	1210	TDK ELECTRONICS CORP	NL322522T-330J-3
68UH	5%	108-5132-00	50mA	30	1210	TDK ELECTRONICS CORP	NL322522T-680J-3
470UH	5%	108-5091-00	62mA	40	1812	TDK ELECTRONICS CORP	NL453232T-471J
680UH	10%	108-5058-00	50mA	30	1812	TDK ELECTRONICS CORP	NL453232T-681K
820UH	10%	108-5014-00	30mA	30	1812	TDK ELECTRONICS CORP	NL453232T-821K

Trimmer Potentiometers, Top Adjust – Supplier: Bourns, Tocos – Gary Johnson, 627-1985, garyjo@tekig5.PEN.TEK.COM

Value	Tolerance	Power	Size	Orientation	Tek P/N
50 OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5029-00
100 OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5037-00
200 OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5032-00
500 OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5033-00
1K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5039-00
2K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5034-00
5K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5036-00
10K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5040-00
20K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5038-00
100K OHM	25%	0.25W	4MM SQ	TOP ADJUST	311-5041-00

Trimmer Potentiometers, Side Adjust – Supplier: Bourns, Tocos – Gary Johnson, 627-1985, garyjo@tekig5.PEN.TEK.COM

Value	Tolerance	Power	Size	Orientation	Tek P/N
500 OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5051-00
1K OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5047-00
2K OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5042-00
5K OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5053-00
10K OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5052-00
50K OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5010-00
2M OHM	25%	0.25W	4MM SQ	SIDE ADJUST	311-5043-00

Through-Hole Components: Logic Devices – Gates

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded gray

Approved Vendors

Expect one or more of the following vendors to be approved on the list of parts below: Texas Instruments, Motorola, AMD, Philips, National and IDT. A wide variety of suppliers are approved to minimize the potential for shortages.

Gates

Industry P/N	Description	Tek P/N	Package
74HCT00	QUAD 2-INPUT NAND	156-3142-00	DIP14.3
74ALS00	QUAD 2-INPUT NAND	156-2091-00	DIP14.3
74ACT00	QUAD 2-INPUT NAND	156-3656-00	DIP14.3
74F00	QUAD 2-INPUT NAND	156-1707-00	DIP14.3
74HCT02	QUAD 2-INPUT NOR	156-3626-00	DIP14.3
74ALS02	QUAD 2-INPUT NOR	156-2092-00	DIP14.3
74F02	QUAD 2-INPUT NOR	156-1743-00	DIP14.3
74HCT04	HEX INVERTER	156-3201-00	DIP14.3
74ALS04	HEX INVERTER	156-2094-00	DIP14.3
74ACT04	HEX INVERTER	156-3379-00	DIP14.3
74F04	HEX INVERTER	156-1722-00	DIP14.3
74HCT08	QUAD 2-INPUT AND	156-2437-00	DIP14.3
74ALS08	QUAD 2-INPUT AND	156-2113-00	DIP14.3
74AC08	QUAD 2-INPUT AND	156-3369-00	DIP14.3
74F08	QUAD 2-INPUT AND	156-1723-00	DIP14.3
74HCT10	TRIPLE 3-INPUT NAND	156-3140-00	DIP14.3
74ACT10	TRIPLE 3-INPUT NAND	156-4092-00	DIP14.3
74F10	TRIPLE 3-INPUT NAND	156-1752-00	DIP14.3
74HCT11	TRIPLE 3-INPUT AND	156-3057-00	DIP14.3
74F11	TRIPLE 3-INPUT AND	156-1663-00	DIP14.3
74HCT14	HEX INVERTER, SCHMITT TRIGGER	156-3435-00	DIP14.3
74F14	HEX INVERTER, SCHMITT TRIGGER	156-2608-00	DIP14.3
74F20	DUAL 4-INPUT NAND	156-1957-00	DIP14.3
74HCT27	TRIPLE 3-INPUT NOR	156-3027-00	DIP14.3
74ALS27	TRIPLE 3-INPUT NOR	156-2097-00	DIP14.3
74F27	TRIPLE 3-INPUT NOR	156-3161-00	DIP14.3
74ALS30	8-INPUT NAND	156-1910-00	DIP14.3
74F30	8-INPUT NAND	156-3163-00	DIP14.3
74HCT32	QUAD 2-INPUT OR	156-2436-00	DIP14.3
74ALS32	QUAD 2-INPUT OR	156-2093-00	DIP14.3
74AC32	QUAD 2-INPUT OR	156-3371-00	DIP14.3
74F32	QUAD 2-INPUT OR	156-1724-00	DIP14.3
74F38	QUAD 2-INPUT NAND BUFFER, OPEN COLLECTOR	156-2540-00	DIP14.3
74F86	QUAD 2-INPUT XOR	156-1800-00	DIP14.3
74HC86	QUAD 2-INPUT XOR	156-3061-00	DIP14.3
74HCT132	QUAD 2-INPUT NAND SCHMITT TRIGGER	156-3655-00	DIP14.3
74F132	QUAD 2-INPUT NAND SCHMITT TRIGGER	156-3145-00	DIP14.3
74F260	DUAL 5-INPUT NOR	156-3198-00	DIP14.3

Through-Hole Components: Logic Devices – Flip Flops

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Flip Flops

Industry P/N	Description	Tek P/N	Package
74HC74	DUAL D-TYPE WITH SET AND RESET	156-2009-00	DIP14.3
74ALS74	DUAL D-TYPE WITH SET AND RESET	156-1756-00	DIP14.3
74ACT74	DUAL D-TYPE WITH SET AND RESET	156-4310-00	DIP14.3
74F74	DUAL D-TYPE WITH SET AND RESET	156-1611-00	DIP14.3
74F109	DUAL J-K, WITH PRESET AND RESET	156-1919-00	DIP16.3
74HC112	DUAL J-K, NEGATIVE EDGE TRIG, WITH PRESET AND CLEAR	156-2592-00	DIP16.3
74F112	DUAL J-K, NEGATIVE EDGE TRIG, WITH PRESET AND CLEAR	156-1974-00	DIP16.3
74HCT174	HEX D-TYPE WITH RESET	156-3192-00	DIP16.3
74ALS174	HEX D-TYPE WITH RESET	156-2179-00	DIP16.3
74ACT174	HEX D-TYPE WITH RESET	156-3637-00	DIP16.3
74F174	HEX D-TYPE WITH RESET	156-1911-00	DIP16.3
74HC175	QUAD D-TYPE, WITH RESET	156-2421-00	DIP16.3
74ALS175	QUAD D-TYPE, WITH RESET	156-2096-00	DIP16.3
74F175	QUAD D-TYPE, WITH RESET	156-1973-00	DIP16.3
74HCT273	OCTAL D-TYPE, WITH RESET	156-3177-00	DIP20.3
74ALS273	OCTAL D-TYPE, WITH RESET	156-1998-00	DIP20.3
74ACT273	OCTAL D-TYPE, WITH RESET	156-4335-00	DIP20.3
74F273	OCTAL D-TYPE, WITH RESET	156-2634-00	DIP20.3
74HCT374	OCTAL D-TYPE, 3-STATE	156-1646-00	DIP20.3
74ALS374	OCTAL D-TYPE, 3-STATE	156-2063-00	DIP20.3
74ACT374	OCTAL D-TYPE, 3-STATE	156-3290-00	DIP20.3
74F374	OCTAL D-TYPE, 3-STATE	156-1704-00	DIP20.3
74HC377	OCTAL D-TYPE, WITH ENABLE	156-2859-00	DIP20.3
74F377	OCTAL D-TYPE, WITH ENABLE	156-2924-00	DIP20.3
74HCT574	OCTAL D-TYPE, 3-STATE	156-2357-00	DIP20.3
74ALS574	OCTAL D-TYPE, 3-STATE	156-1664-00	DIP20.3
74ACT574	OCTAL D-TYPE, 3-STATE	156-3881-00	DIP20.3
74F574	OCTAL D-TYPE, 3-STATE	156-2953-00	DIP20.3
74FCT574AT	OCTAL D-TYPE, 3-STATE	156-4237-00	DIP20.3

Latch

Industry P/N	Description	Tek P/N	Package
74HCT259	8-BIT ADDRESSABLE	156-2603-00	DIP16.3
74HCT373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-2134-00	DIP20.3
74ACT373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-3658-00	DIP20.3
74F373	OCTAL D-TYPE TRANSPARENT, 3-STATE	156-1721-00	DIP20.3
74HCT573	OCTAL D-TYPE, 3-STATE	156-2356-00	DIP20.3
74ALS573	OCTAL D-TYPE, 3-STATE	156-1858-00	DIP20.3
74F573	OCTAL D-TYPE, 3-STATE	156-2926-00	DIP20.3
74ALS841	10-BIT D-TYPE, 3-STATE	156-2342-00	DIP24.3

Through-Hole Components: Logic Devices – Demux/Decoder, Mux/Encoder, Counters

Norm Adre, 627-2524, Norman.Adre@TEK.COM

*New adds to Rev 7.0 are shaded in gray.***Demux/Decoder**

Industry P/N	Description	Tek P/N	Package
74HCT138	1-TO-8 DECODER	156-1956-00	DIP16.3
74ALS138	1-TO-8 DECODER	156-2100-00	DIP16.3
74ACT138	1-TO-8 DECODER	156-3965-00	DIP16.3
74F138	1-TO-8 DECODER	156-1727-00	DIP16.3
74HCT139	DUAL 2-TO-4 DECODER	156-2337-00	DIP16.3
74ALS139	DUAL 2-TO-4 DECODER	156-2293-00	DIP16.3
74AC139	DUAL 2-TO-4 DECODER	156-3372-00	DIP16.3
74F139	DUAL 2-TO-4 DECODER	156-1726-00	DIP16.3
74HC154	4-TO-16 DECODER	156-2717-00	DIP24.3

Mux/Encoder

Industry P/N	Description	Tek P/N	Package
74F148	8-TO-3 PRIORITY ENCODER	156-2038-00	DIP16.3
74HC151	8-TO-1 MUX	156-3066-00	DIP16.3
74ALS151	8-TO-1 MUX	156-4308-00	DIP16.3
74F151	8-TO-1 MUX	156-1746-00	DIP16.3
74HC153	DUAL 4-TO-1 MUX	156-2581-00	DIP16.3
74ALS153	DUAL 4-TO-1 MUX	156-2109-00	DIP16.3
74ACT153	DUAL 4-TO-1 MUX	156-4090-00	DIP16.3
74F153	DUAL 4-TO-1 MUX	156-1662-00	DIP16.3
74HC157	QUAD 2-TO-1 MUX	156-1958-00	DIP16.3
74ALS157	QUAD 2-TO-1 MUX	156-2182-00	DIP16.3
74AC157	QUAD 2-TO-1 MUX	156-3344-00	DIP16.3
74F157	QUAD 2-TO-1 MUX	156-1909-00	DIP16.3
74FCT157AT	QUAD 2-TO-1 MUX	156-4201-00	DIP16.3
74F158	QUAD 2-TO-1 MUX, INVERTED, INV	156-1997-00	DIP16.3
74F251	8-TO-1 DATA MUX, 3-STATE	156-2257-00	DIP16.3
74F253	DUAL 4-TO-1 MUX, 3-STATE	156-2260-00	DIP16.3
74HCT257	QUAD 2-TO-1 MUX, 3-STATE	156-2370-00	DIP16.3
74ALS257	QUAD 2-TO-1 MUX, 3-STATE	156-2210-00	DIP16.3
74F257	QUAD 2-TO-1 MUX, 3-STATE	156-2001-00	DIP16.3

Counters

Industry P/N	Description	Tek P/N	Package
74ALS161	SYNCH 4-BIT BINARY	156-2098-00	DIP16.3
74F161	SYNCH 4-BIT BINARY	156-2251-00	DIP16.3
74ALS163	SYNCH 4-BIT BINARY	156-2586-00	DIP16.3
74AC163	SYNCH 4-BIT BINARY	156-3350-00	DIP16.3
74F163	SYNCH 4-BIT BINARY	156-1935-00	DIP16.3
74ALS191	SYNCH 4-BIT UP/DOWN BINARY	156-2334-00	DIP16.3

(Counters continued on page 48)

Through-Hole Components: Logic Devices – Counters, Shift Registers, Buffers/Drivers

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Counters (cont.)

Industry P/N	Description	Tek P/N	Package
74F191	SYNCH 4-BIT UP/DOWN BINARY	156-1714-00	DIP16.3
74HCT193	SYNCH 4-BIT UP/DOWN BINARY, WITH SEPARATE UP/DOWN CLOCK	156-3638-00	DIP16.3
74F193	SYNCH 4-BIT UP/DOWN BINARY, WITH SEPARATE UP/DOWN CLOCK	156-3933-00	DIP16.3
74F269	8-BIT BIDIRECTIONAL BINARY	156-3580-00	DIP24.3
74HC390	DUAL 4-BIT DECADE	156-2879-00	DIP16.3
74HC393	DUAL 4-BIT BINARY RIPPLE	156-2906-00	DIP14.3
74HCT4020	14-STAGE BINARY RIPPLE	156-2355-00	DIP16.3
74HC4040	12-STAGE BINARY RIPPLE	156-2601-00	DIP16.3
74F579	8-BIT BIDIRECTIONAL BINARY, 3-STATE	156-3890-00	DIP20.3
74HC590	8-BIT BINARY WITH OUTPUT REGISTERS	156-4042-00	DIP16.3

Shift Registers SI – Serial In, PI – Parallel In, SO – Serial Out, PO – Parallel Out

Industry P/N	Description	Tek P/N	Package
74HCT164	8-BIT SIPO, WITH CLEAR	156-4272-00	DIP14.3
74ALS164	8-BIT SIPO, WITH CLEAR	156-2110-00	DIP14.3
74F164	8-BIT SIPO, WITH CLEAR	156-2120-00	DIP14.3
74HCT165	8-BIT PISO	156-3882-00	DIP16.3
74HC166	8-BIT SI/PISO WITH CLEAR	156-2834-00	DIP16.3
74ALS166	8-BIT SI/PISO WITH CLEAR	156-4418-00	DIP16.3
74F194	4-BIT BIDIRECTIONAL UNIVERSAL	156-1961-00	DIP16.3
74F195	4-BIT BIDIRECTIONAL UNIVERSAL, WITH J & K SERIAL INPUT	156-2518-00	DIP16.3
74F299	8-BIT UNIVERSAL	156-2259-00	DIP20.3
74HCT4094	8-STAGE SHIFT AND STORE	156-3944-00	DIP16.3
74HC594	8-BIT SHIFT WITH OUTPUT REGISTERS	156-4041-00	DIP16.3
74HC595	8-BIT SIPO, LATCHED, 3-STATE	156-2349-00	DIP16.3

Buffers/Drivers

Industry P/N	Description	Tek P/N	Package
74HC125	QUAD BUFFER/DRIVER, OE, 3-STATE	156-2707-00	DIP14.3
74F125	QUAD BUFFER/DRIVER, OE, 3-STATE	156-3143-00	DIP14.3
74HCT126	QUAD BUFFER/DRIVER, 3-STATE	156-3258-00	DIP14.3
74F126	QUAD BUFFER/DRIVER, 3-STATE	156-3252-00	DIP14.3
74F367	HEX BUFFER/DRIVER, 4-BIT/2-BIT, 3-STATE	156-3099-00	DIP16.3
74HCT240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-2184-00	DIP20.3
74ALS240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-1753-00	DIP20.3
74ACT240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-4061-00	DIP20.3

(Buffers/Drivers continued on page 49)

Through-Hole Components: Logic Devices – Buffers/Drivers, Transceivers, Misc. Functions

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Buffers/Drivers (cont)

Industry P/N	Description	Tek P/N	Package
74F240	OCTAL BUFFER/DRIVER, INVERTED, 3-STATE	156-1744-00	DIP20.3
74F241	OCTAL BUFFER/DRIVER, 3-STATE	156-1745-00	DIP20.3
74FCT241AT	OCTAL BUFFER/DRIVER, 3-STATE	156-4152-00	DIP20.3
74HCT244	OCTAL BUFFER/DRIVER, 3-STATE	156-1920-00	DIP20.3
74ALS244	OCTAL BUFFER/DRIVER, 3-STATE	156-1754-01	DIP20.3
74ACT244	OCTAL BUFFER/DRIVER, 3-STATE	156-3305-00	DIP20.3
74F244	OCTAL BUFFER/DRIVER, 3-STATE	156-1962-00	DIP20.3
74ALS540	OCTAL BUFFER/DRIVER, INVERTED, FLOW THRU, 3-STATE	156-2863-00	DIP20.3
74F540	OCTAL BUFFER/DRIVER, INVERTED, FLOW THRU, 3-STATE	156-3577-00	DIP20.3
74HCT541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-2369-00	DIP20.3
74ALS541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-2391-00	DIP20.3
74ACT541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-3716-00	DIP20.3
74F541	OCTAL BUFFER/DRIVER, FLOW THRU, 3-STATE	156-2864-00	DIP20.3
74F827	10-BIT BUFFER/DRIVER, 3-STATE	156-3888-00	DIP24.3
29C827A	10-BIT BUFFER/DRIVER, 3-STATE	156-2923-00	DIP24.3

Transceivers

Industry P/N	Description	Tek P/N	Package
74HCT245	OCTAL, 3-STATE	156-1921-00	DIP20.3
74ALS245	OCTAL, 3-STATE	156-1748-02	DIP20.3
74ACT245	OCTAL, 3-STATE	156-3860-00	DIP20.3
74F245	OCTAL, 3-STATE	156-1725-00	DIP20.3
74HCT652	OCTAL REGISTERED, 3-STATE	156-3891-00	DIP24.3
74ALS652	OCTAL REGISTERED, 3-STATE	156-2292-00	DIP24.3
74FCT652T	OCTAL REGISTERED, 3-STATE	156-3993-00	DIP24.3
74FCT652AT	OCTAL REGISTERED, 3-STATE	156-4068-00	DIP24.3

Misc. Functions

Industry P/N	Description	Tek P/N	Package
CDC204	HEX INVERTER/CLOCK DRIVER	156-4165-00	DIP20.3
CDC208	DUAL 1-TO-4 CLOCK DRIVER	156-4225-00	DIP20.3
CDC305	OCTAL DIVIDE-BY-2 CLOCK DRIVER	156-4166-00	DIP16.3
74HC221	DUAL NON-RETRIG MONOSTABLE MULTIVIBRATOR WITH RESET	156-2761-00	DIP16.3
74F283	4-BIT BINARY FULL ADDER, WITH FAST CARRY	156-1705-00	DIP16.3
74ALS521	8-BIT IDENTITY COMPARATOR, /P=/Q,	156-2238-00	DIP20.3
74F521	8-BIT IDENTITY COMPARATOR, /P=/Q,	156-0441-00	DIP20.3
74C923	20-KEY ENCODER	156-1215-00	DIP18.3

Through-Hole Components: Logic Devices – Low Density Electrically Eraseable PLDs, FPGA Serial Configuration PROMs

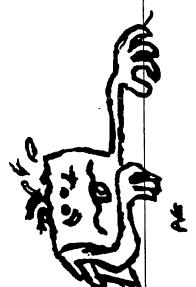
Norm Adre, 627-2524, Norman.Adre@TEK.COM

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Low Density Electrically Eraseable PLDs

The two main suppliers of Low Density CMOS EEPLDs at Tektronix are AMD and Lattice. The high speed bipolar PALs have been removed from the list because there are no new developments in bipolar PALs and it is a declining technology. Although some of the high speed bipolar 20/24 pin PALs will be around for a while, new designs should consider using CMOS EEPLDs.

Device	Tpd	# of I/Os	# of Macrocells	Tek P/N	Package Type
16V8-7	7.5ns	8	8	156-4147-00	DIP20.3
16V8-10	10ns	8	8	156-3906-00	DIP20.3
16V8-15	15ns	8	8	156-3211-00	DIP20.3
16V8-25	25ns	8	8	156-2983-00	DIP20.3
16V8-25Q Quarter Power	25ns	8	8	156-3582-00	DIP20.3
20V8-7	7.5ns	8	8	156-4362-00	DIP24.3
20V8-10	10ns	8	8	156-4021-00	DIP24.3
20V8-15	15ns	8	8	156-3212-01	DIP24.3
20V8-25	25ns	8	8	156-3012-00	DIP24.3
20V8-25Q Quarter Power	25ns	8	8	156-3581-00	DIP24.3
22V10-15	15ns	10	10	156-3923-00	DIP24.3
22V10-25	25ns	10	10	156-3784-00	DIP24.3
22V10-25Q Quarter Power	25ns	10	10	156-3937-00	DIP24.3
29MA16H-25	25ns	16	16	156-4007-00	DIP24.3
26V12H-20	20ns	12	12	156-4270-00	DIP28.3
20RA10-20	20ns	10	10	156-4370-00	DIP24.3
6002B-20	20ns	10	10 Input 10 Output 8 Buried	156-3740-00	DIP24.3
18V10-20	20ns	10	10	156-4325-00	DIP20.3
EP610-35	35ns	16	16	156-3932-00	DIP24.3



FPGA Serial Configuration PROMs

Serial Configuration PROMs	Size	Tek P/N	Package
1736	36K X 1	156-3808-00	DIP8.3
1765	64K X 1	156-4088-00	DIP8.3
17128	128K X 1	156-4392-00	DIP8.3

Through-Hole Components: Logic Devices – 10KH ECL

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

ECL Logic Devices

10KH ECL – Supplier: Motorola

Vendor P/N	Description	Tek P/N	Package
Gates			
10H102	Quad 2-input NOR gate	156-1641-00	DIP16.3
10H104	Quad 2- input AND gate	156-1674-00	DIP16.3
10H107	Triple 2-input EXOR/NOR gate	156-1676-00	DIP16.3
10H109	Dual 4-5 input OR/NOR	156-1682-00	DIP16.3
10H101	Quad OR/NOR gate	156-1733-00	DIP16.3
10H105	Triple 2-3-2 input OR/NOR gate	156-1642-00	DIP16.3
10H117	Dual 2-wide 2-3 input OR-AND/OR-AND-INV gate	156-1710-00	DIP16.3
10H121	4-wide OR-AND/OR-AND-INV gate	156-1794-00	DIP16.3
10H210	Dual 3 input 3 output OR gate	156-1711-00	DIP16.3
10H103	Quad 2-input OR	156-1849-00	DIP16.3
10H113	Quad 2-input XOR gate	156-2598-00	DIP16.3
10H188	Hex buffer, with enable	156-1992-00	DIP16.3
Flip-Flop			
10H131	Dual D-type	156-1639-00	DIP16.3
10H135	Dual J-K	156-2597-00	DIP16.3
10H176	Hex D-type	156-1712-00	DIP16.3
10H186	Hex D-type, with reset	156-3119-00	DIP16.3
Shift Register			
10H141	4-bit universal shift register	156-1874-00	DIP16.3
Driver/Receivers			
10H116	Differential triple line receiver	156-1640-00	DIP16.3
10H115	Quad line receiver	156-2114-00	DIP16.3
10H123	Triple 4-3-3 input bus driver, 25 Ohm	156-2599-00	DIP16.3
Mux			
10H164	8-to-1 mux	156-1667-00	DIP16.3
10H173	Quad 2-input mux with latch	156-2116-00	DIP16.3
10H174	Dual 4-to-1 mux	156-1795-00	DIP16.3
10H158	Quad 2-input mux	156-1891-00	DIP16.3
Counters			
10H136	Universal hexadecimal	156-1889-00	DIP16.3
10H016	4-bit binary	156-2142-00	DIP16.3

(10KH ECL continued on page 52)

Through-Hole Components: Logic Devices – 10KH ECL, RS-232 Interface Devices, Misc. Interface Devices

Norm Adre, 627-2524, Norman.Adre@TEK.COM

New adds to Rev 7.0 are shaded in gray.

10KH ECL (cont.)

Vendor P/N	Description	Tek P/N	Package
Translators			
10H124	Quad TTL-to-ECL translator	156-2289-00	DIP16.3
10H125	Quad ECL-to-TTL translator	156-2290-00	DIP16.3
10H350	Quad ECL-to-TTL translator, single supply	156-2350-00	DIP16.3
Decoders			
10H161	3-to-8 decoder (LOW)	156-2739-00	DIP16.3
10H171	Binary to 1-4 Decoder (LOW)	156-2115-00	DIP16.3
Comparator			
10H166	5-bit Magnitude	156-2480-00	DIP16.3

RS-232 Interface Devices – Suppliers: Maxim, Texas Instruments, National, Linear Technologies

Vendor P/N	Supply Voltage	# of Drivers/Receivers	Other Features	Tek P/N	Package
1489	+5V	4 Receivers		156-0878-00	DIP14.3
1488	±12V	4 Drivers		156-0879-00	DIP14.3
75155	±12V	1/1	Receiver threshold control	156-4015-00	DIP8.3
MAX232	+5V	2/2	External caps required	156-2724-00	DIP16.3
MAX233	+5V	2/2		156-2755-00	DIP20.3
MAX235	+5V	5/5	Low power shutdown/TTL 3-state	156-3456-00	DIP24.6
LT1039	±12V, +5V	3/3	Low power shutdown	156-3511-00	DIP18.3
LT1280	+5V	2/2	External caps required, low power shutdown	156-6397-00	DIP18.3
MAX238	+5V	4/4		156-3677-00	DIP24.3
MAX239	+5V, +12V	3/5	TTL 3-state	156-4048-00	DIP24.3

Miscellaneous Interface Devices – Suppliers: Texas Instruments, AMD

Vendor P/N	Description	Tek P/N	Package
26LS32	Quad differential line receiver, meets RS-422 & RS-423 standards	156-1315-00	DIP16.3
75179B	Single differential line driver/receiver pair, meets RS-422 & RS-423 standards	156-3453-00	DIP8.3
75158	Dual differential line driver, RS-422A, +5V V _{cc}	156-3720-00	DIP8.3

Through-Hole Components: DRAMs/VDRAMs, EPROM/FLASH

Abe Ghahyasi, 627-2567, Abe.Ghahyasi@TEK.COM

New adds to Rev 7.0 are shaded in gray.

DRAMs/VDRAMs – Suppliers: NEC, Toshiba, TI, Samsung (*In process of evaluation*)

DRAM	Density (bits)	Config. (words X bits)	Speed (nS)	package	Tek P/N
	4 MEG	4MEG X 1	80	SOJ26.300	156-6398-xx
		1MEG X 4	70	SOJ26.300	156-6421-xx
			100	zip20	156-4030-00
		512K X 8	70	SOJ28.400	156-6578-xx
		256K X 16 (Fast page self-refresh)		SOJ40.400	156-6582-xx
				TSOP44	156-6846-xx
	16MEG	16MEG X 1	60/70	SOJ28.300	not assigned
		4MEG X 4	60/70	SOJ28.300	not assigned
				TSOP	not assigned
	16MEG	1MEG X 16	60/70	TSOPII	not assigned
	16MEG Sync	4MEG X 4	TBD	TSOPII	not assigned
		1MEG X 16	TBD	TSOPII	not assigned
DRAM MODULE	4MEG X 8			SIMM72	not assigned
	1MEG X 32			SIMM72	156-4382-00
	2MEG X 32			SIMM72	156-4383-00
	4MEg X 32			SIMM72	156-4380-00
Video DRAM	1MEG *	256K X 4	80	SOJ28.400	156-5680-xx
	2MEG	TBD	70	TBD	not assigned
	4MEG	256K X 16	70	SO64	156-6555-00

*Recommended for current designs, Not new designs

EPROM/FLASH – Suppliers: AMD, Intel

EPROM	Density (bits)	Config. (words X bits)	Feature	Package	Tek P/N
	128K	16K X 8	150	DIP28.6	156-3298-00
	256K	32K X 8	120	DIP28.6	156-4004-00
			200	DIP28.6	156-3503-00
	512K	64K X 8	150	DIP28.6	156-2919-00
	1MEG	128K X 8	150	DIP32.6	156-3644-00
			120	DIP32.6	156-3679-00
		64K X 16	150	DIP40.6	156-3542-00
	2MEG	256K X 8	200	DIP32.6	156-4025-00
	4MEG	512K X 8	150	DIP32.6	156-4221-00
		256K X 16	120	DIP40.6	156-4329-00
		256K X 16/512K X 8 MROM pinout	120	DIP40.6 otp	156-4129-00

(EPROM/FLASH continued on page 54)

Through-Hole Components: EPROM/FLASH, EEPROM, PROM

Abe Ghahyasi, 627-2567, Abe.Ghahyasi@TEK.COM

New adds to Rev 7.0 are shaded in gray.

EPROM/FLASH (cont.) – Suppliers: AMD, Intel

EPROM	Density (bits)	Config. (words X bits)	Feature	Package	Tek P/N
		256K X 16/512K X 8 (MROM pinout)	120	DIP40.6 otp	156-4282-00
	8MEG				not assigned
FLASH	2MEG	256K X 8 High endurance ->	200	DIP32.6	156-4071-00

EEPROM – Suppliers: Xicor, Catalyst & National (In process of evaluation)

EEPROM	Density (bits)	Config. (words X bits)	Speed (nS)	Package	Tek P/N
	1K	128 X 8	Serial 2-Wire Bus Structure	DIP8.3	156-4052-00
	4K	512 X 8		DIP8.3	156-4220-00
	16K	2K X 8		DIP8.3	156-3554-00

PROM – Suppliers: Cypress

PROM (Registered)	Density (bits)	Config. (words X bits)	Speed (nS)	package	Tek P/N
	4K	512 X 8	40	DIP24.3	156-3116-00
			25	DIP24.3	156-3242-00
	8K	1K X 8	40	DIP24.3	156-2522-00
	16K	2K X 8	50	DIP24.3	156-33745-00
			35	DIP24.3	156-3045-00
			15	DIP24.3	156-4306-00
	64K	8K X 8	50	DIP28.3	156-3836-00
			40	DIP28.3	156-3820-00
	256K	32K X 8	50	DIP28.3	156-4257-00
			40	DIP28.3	156-4284-00
PROM (non-Registered)	8K	1K X 8	45	DIP24.3	156-2951-00
	64K	8K X 8	45	DIP24.3	156-3254-00
			30	DIP24.3	156-3255-00
	128K	16K X 8 (Power down)	65	DIP28.3	156-3907-00
PROM (Serial)		36288 X 1		DIP08.3	156-3808-00
		64K X 1		DIP08.3	156-4088-00
		128K X 1		DIP08.3	156-4392-00

Through-Hole Components: SRAMS & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

SRAMs – Suppliers: Cypress, NEC, Toshiba

Density (bits)	Config. (words X bits)	Speed (ns)	Iccdr	Package	Tek P/N
16K	4K X 4	4		DIP28.4	156-4119-02
64K	8K X 8	120		DIP28.3	156-2066-00
256K	32K X 8	120		DIP28.6	156-2641-00
256K	32K X 8	15		DIP28.3	156-4262-00
1 MEG	128K X 8	120	15UA	DIP32.6	156-3479-00
1 MEG	128K X 8	120	50UA	DIP32.6	156-3959-00

Battery NVRAM – Supplier: Dallas Semiconductor

Density (bits)	Config. (words X bits)	Speed (ns)	Clock	Package	Tek P/N
16K	2K X 8	200	NO	DIP24.6	156-2671-00
64K	8K X 8	100	NO	DIP28.6	156-4224-00
64K	8K X 8	120	YES	DIP28.6	156-4435-00
256K	32K X 8	150	YES	DIP32.6	156-4202-00
256K	32K X 8	120	NO	DIP32.6	156-3870-00
1MEG	128K X 8	120	NO	DIP32.6	156-4080-00
1MEG Serial	128K X 8	-	NO	5 Pin Module	156-4116-00
4MEG	512K X 8	120	NO	DIP32.6	156-4369-00

FIFOs – Supplier: Cypress

Density (bits)	Config. (words X bits)	Speed (ns)	Package	Tek P/N
4.6K	512 X 9	65	DIP28.6	156-4009-00

Batteries – Supplier: TBD

Technology	Voltage	Capacity	Package	Tek P/N
Alkaline	9	500mAH	1604(9V size)	146-0017-00
Lead Acid	6	4.6AH	2.7 X 1.9 X 4	146-0098-00
Lithium	3	150mAH	Coin Cell	146-0063-00
	3	210mAH	Coin Cell	146-0096-00
	3	250mAH	Coin Cell	146-0069-00
	3	500mAH	Coin Cell/Tabs	146-0090-00
	3	560mAH	Coin Cell	146-0103-00
	3	1.2AH	2/3A	146-0050-00
	3	1.2AH	2/3A W/Leads	146-0056-02

(Batteries continued on page 56)

Through-Hole Components: SRAMS & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Batteries (cont.) – Supplier: TBD

Technology	Voltage	Capacity	Package	Tek P/N
Lithium	3.4	1.75AH	AA W/Tabs	146-0045-00
	3.5	1.6AH	1.6 X .6 X .625	146-0062-01
	3.6	850mAH	AA	146-0104-00
Nicad	1.2	500mAH	AA	146-0058-00
Silver Oxide	1.5	600mAH	2/3 AA/Tabs	146-0087-00

Floppy Drives – Supplier: TEAC

Size	Capacity	Height	Density	Tek P/N
3.5 IN	2MB	0.5 IN	DSDD	119-4547-01
3.5 IN	2MB	1.0 IN	DSDD	119-4758-00

Hard Drives – Supplier: TBD

Capacity	Size	Height	Interface	Tek P/N
85MB	2.5 IN	0.75 IN	IDE	119-5065-00
127.9MB	2.5 IN	0.75 IN	IDE	119-4561-01
240MB	3.5 IN	1.0 IN	IDE	119-4481-00

Media – Supplier: TBD

Size	Density	Notes	Tek P/N
5.25 IN	DDDS	No Notch	119-3057-00
3.5 IN	DDDS		119-3910-00

Intel 80C51 Family CMOS Microcomputers–Suppliers: Intel, Philips

Vendor P/N	Description	Package	Tek P/N
P80C31BH	ROMLESS, 12 MHZ	DIP40-6	156-3269-00
P80C32-1	ROMLESS, 16 MHZ, 256X8 RAM	DIP40-6	156-4046-00
SC87C51CPN40	4KX8 OTP EPROM, 24 MHZ	DIP40-6	156-4217-00
P87C528EBPN	32KX8 OTP EPROM, 512X8 RAM, 16 MHZ, I ² C, WATCHDOG, TIMER, (3) COUNTER/TIMERS	DIP40-6	156-4389-00

Intel CMOS Advanced Microprocessors–Supplier: Intel

Vendor P/N	Description	Package	Tek P/N
486DX2/66	32-BIT, 66 MHZ, CLOCK DOUBLED	PGA168	not p/n
A80960CA-33	32-BIT, 33 MHZ, RISC, SUPERSCALAR	PGA168	156-4502-00

(Microprocessors continued on page 57)

Through-Hole Components: SRAMs & Peripherals

Wilton Hart, 627-3035, Wilton.Hart@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Microprocessors, 8-bit – Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
68HC705P9	Eeprom,A/D,Timer	DIP28.6	156-4346-00

Microprocessors, 16-bit – Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
6EC030	HCMOS, 40MHZ	PGA128	156-4179-00

Microprocessors, 32-bit – Supplier: Motorola

Vendor #	Notes	Package	Tek P/N
68020	16MHZ	PPGA114	156-2515-04
68040	25MHZ	PGA179	156-3966-00
29000	25MHZ	PGA169	156-4281-00
68040	16MHZ	PGA145	156-4253-00

Peripherals – Supplier: TBD

Real Time Clock	Ram	Internal Battery	Package	Vendor P/N	Tek P/N
	None	Yes	Dip28.6	DS1286	156-4345-00
	4K Bits	Yes	Coin	DS1994	156-4357-00
	128K X 8	Yes	Dip28.6	DS1486	156-4347-00
Communication	Type	Notes			
	LAN	Ethernet Controller	Dip48.6	7990	156-2448-00
		Manchester Converter	Dip24.6	7992	156-2471-00



Through-Hole Components: Bipolar Power Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

NPN Bipolar Power Transistors – Suppliers: Motorola, Philips

Vendor P/N	Package	V _{ceo} (max) (V)	I _c (max) (A)	h _{FE} *V _{ce(sat)}	@I _c (A)	f _T (MHz)	SMT Equiv.	Complement	Comments	Tek P/N
MJE200	TO-126	25	5.0	45-180	2.0	65 min	MJD200	151-0971-00		151-0972-00
D44H11	TO-220	80	10	60 min	2.0	50	MJD44H11	151-0625-00		151-0426-00
MJF44H11	TO-220FP	80	10	60 min	2.0	50	MJD44H11	151-0943-00		151-0942-00
2N6488	TO-220	80	15	20-150	5.0	5.0		2N6491		151-0917-00
MJF3055	TO-220FP	90	10	20-100	4.0	2.0	MJD3055	151-0938-00		151-0937-00
TIP29C/31C	TO-220	100	3.0	25 min	1.0	3.0	151-5043-00	151-0462-00		151-0464-00
MJE243	TO-126	100	4.0	40-180	0.2	40	MJD243	151-0465-00		151-0466-00
TIP35C	TO-218	100	25	15-75	15	3.0		151-0651-00		151-0652-00
MJF16204	TO-220FP	250	6.0	*1.0V	3.0				550V V _{ces}	151-0962-00
BF471	TO-126	300	0.1	50 min	25mA	60		151-0916-00		151-0915-00
MJE13005	TO-220	400	4.0	*0.6V	2.0				700V V _{cev}	151-0678-00
MJE13007	TO-220	400	8.0	*1.0V	5.0				700V V _{cev}	151-0632-00
MJE13009	TO-220	400	12	*1.5V	8.0				700V V _{cev}	151-0679-00
MJH16002A	TO-218	500	5.0	*1.0V	3.0				1000V V _{cev}	151-0908-00

NPN Bipolar Power Darlingtons – Supplier: Motorola

Vendor P/N	Package	V _{ceo} (max) (V)	I _c (max) (A)	h _{FE}	@I _c (A)	f _T (MHz)	SMT Equiv.	Complement	Tek P/N
MJE800	TO-126	60	4.0	750 min	1.5	1.0	151-5033-00	151-0429-00	151-0405-00
2N6044	TO-220	80	8.0	1k-20k	4.0	4.0	MJD122	151-0657-00	151-0656-00
TIP142	TO-218	100	10	1k min	5.0	1.0		151-0607-00	151-0606-00

PNP Bipolar Power Transistors – Suppliers: Motorola, Philips

Vendor P/N	Package	V _{ceo} (max) (V)	I _c (max) (A)	h _{FE}	@I _c (A)	f _T (MHz)	SMT Equiv.	Complement	Tek P/N
MJE210	TO-126	25	5.0	45-180	2.0	65	MJD210	151-0972-00	151-0971-00
D45H11	TO-220	80	8.0	60 min	2.0	40	151-5081-00	151-0426-00	151-0625-00
MJF45H11	TO-220FP	80	8.0	60 min	2.0	40	151-5081-00	151-0942-00	151-0943-00
MJF2955	TO-220FP	90	10	20-100	4.0	2.5	MJD2955	151-0937-00	151-0938-00
TIP30C/32C	TO-220	100	3.0	25 min	1.0	3.0	151-5044-00	151-0464-00	151-0462-00
MJE253	TO-126	100	4.0	40-180	0.2	40		151-0466-00	151-0465-00
TIP36C	TO-218	100	25	15-75	15	3.0		151-0652-00	151-0651-00
MJE15031	TO-220	150	8.0	40 min	3.0	30		MJE15030	151-0647-00
BF472	TO-126	300	0.1	50 min	25mA	60		151-0915-00	151-0916-00

Through-Hole Components: Bipolar Power Transistors, Small Signal Bipolar Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

PNP Bipolar Power Darlingtons – Supplier: Motorola

Vendor P/N	Package	V _{ceo} (max) (V)	I _c (max) (A)	h _{FE}	@I _c (A)	f _T (MHz)	SMT Equiv.	Complement	Tek P/N
MJE700	TO-126	60	4.0	750 min	1.5	1.0	151-5042-00	151-0405-00	151-0429-00
2N6041	TO-220	80	8.0	1k-20k	4.0	4.0	MJD127	151-0656-00	151-0657-00
TIP147	TO-218	100	10	1k min	5.0	1.0		151-0606-00	151-0607-00

Small Signal Bipolar Transistors – Supplier: Motorola

Vendor P/N	Part Description	Tek P/N
MPS2907ARLRP	PNP;60V,600MA,200MHZ,AMPLIFIER;MPS2907A,TO-92 EBC,T&A	151-0164-01
2N3906RLRP	PNP;40V,200MA,250MHZ,AMPLIFIER;2N3906,TO-92 EBC,T&A	151-0188-05
2N3904RLRP	NPN;40V,200MA,300MHZ,AMPLIFIER;2N3904,TO-92 EBC,T&A	151-0190-09
SPS8801RLRP	NPN;25V,100MA,200MHZ,AMPLIFIER;MPS6521,TO-92 EBC,T&A	151-0192-05
MPS918RLRP	NPN;15V,50MA,600 MHZ,AMPLIFIER;MPS918,TO-92 EBC,T/A	151-0198-04
MPS6523RLRP	PNP;25V,100MA,170MHZ,AMPLIFIER;MPS6523,TO-92 EBC,T&A	151-0216-04
MPS4258RLRP	PNP;12V,80MA,SWITCHING;MPS4258,TO-92 EBC,T&A	151-0221-08
MPS2369ARLRP	NPN;15V,500MA,SWITCHING;MPS2369A,TO-92 EBC,T&A	151-0223-06
MPSA14RLRP	NPN;30V,500MA,125MHZ,AMPLIFIER,DARLINGTON;MPSA14,TO-92 EBC,T&A	151-0254-03
MPSH69RLRP	PNP;15V,30MA,2.0GHZ,AMPLIFIER;MPSH69,TO-92 EBC,T&A	151-0271-05
2N5087RLRP	PNP;50V,50MA,40MHZ,AMPLIFIER;2N5087,TO-92 EBC,T&A	151-0276-01
MPS6520RLRP	NPN;45V,50MA,40MHZ,AMPLIFIER;MPS6520/PN3563,TO-92 EBC,T/A	151-0341-01
MPS4249RLRP	PNP;60V,50MA,40MHZ,AMPLIFIER;MPS4249/PN4249,TO-92 EBC,T&A	151-0342-02
2N5551RLRP	NPN;160V,600MA,100MHZ,AMPLIFIER;2N5551,TO-92 EBC,T&A	151-0347-02
2N5401RLRP	PNP;150V,600MA,100MHZ,AMPLIFIER;2N5401,TO-92 EBC,T&A	151-0350-03
MPS8099RLRP	NPN;80V,500MA,150MHZ,AMPLIFIER;MPS8099,TO-92 EBC,T&A	151-0432-01
MPSA92RLRP	PNP;300V,500MA,50MHZ,AMPLIFIER;MPSA92,TO-92 EBC,T/A	151-0443-03
MPS6727RLRP	PNP;40V,1.0A,50MHZ,AMPLIFIER;2N6727/MPSW51A/ MPS6727,TO-237/TO-226AE,T&A	151-0622-01
MPS6715RLRP OR MPSW01ARLRP	NPN;40V,1.0A,50MHZ,AMPLIFIER;2N6715/MPSW01A,TO-237/TO-226AE,T&A	151-0710-02
MPSH10RLRP	NPN;25V,50MA,650MHZ,AMPLIFIER;MPSH10,TO-92 BEC,T&A	151-0711-02
MPSH81RLRP	PNP;20V,50MA,600MHZ,AMPLIFIER;MPSH81,TO-92 BEC,T&A	151-0712-02
MPS6725RLRP	NPN;50V,1.0A,100MHZ,AMPLIFIER,DARLING- TON;2N6725/MPS6725,TO-237/TO-226AE EBC,T&A	151-0716-01
2N4401RLRP	NPN;40V,600MA,250MHZ,AMPLIFIER;2N4401,TO-92 EBC,T&A	151-0736-01
MPS901RLRP	NPN;15V,30MA,4.5GHZ,AMPLIFIER;MPS901,TO-92 BEC,T&R	151-0944-00

Through-Hole Components: Small Signal FETs, Power MOSFETs

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Small Signal FETs – Suppliers: InterFET, Motorola

Vendor P/N	Part Description	Tek P/N
SNJ1641	JFET,N-CH;5V,6MA,2MS,500 OHM;PN4303 SPECIAL, TO-92,SDG, T&A	151-1005-03
SNJ3011	JFET,N-CH;6V,15MA,4.5MS,AMPLIFIER;J304/PN4416,TO-92 SDG, T&A	151-1025-03
SNJ30L01	JFET,N-CH;5V,20MA,8MS,VGS(1-2)<50MV,DUAL;2N5911_FAMILY, TO-78	151-1032-00
SNJ132H04	JFET,N-CH;3V,30MA,100 OHM,VGS(1-2)<0.1V,DUAL;2N5566_FAMILY, TO-71	151-1036-00
SNJ1609	JFET,N-CH;3.5V,5MA,1MS,VGS(1-2)<0.1V,DUAL;TO-71	151-1054-00
MPF4391RLRP	JFET,N-CH;10V,30MA(MIN),30 OHM,SWITCH;MPF4391,TO-92,T&A	151-1059-01
MPF4393	JFET,N-CH;3.5V,75MA,90 OHM,SWITCH;MPF4393,TO-92,SDG	151-1078-00
SNJ7219	JFET,N-CH;4V,30MA,13MS,AMPLIFIER;J309,TO-92	151-1086-00
SNJ26L24	JFET,N-CH;4.5V,30MA,6MS,110 OHM,5.5MS @450MHZ; 2N5397_FAMILY,TO-92	151-1124-00

N-Channel Power MOSFETs – Suppliers: Motorola, Harris, IR, Philips, Supertex

Vendor P/N	V _{ds} (max) (V)	I _d (max) (A)	R _{ds(on)} (ohm)	Package	Comments	Tek P/N
MTD10N05E-1	50	10	0.1	TO-251	DPAK w/leads	151-1230-00
BUZ71A/IRFZ22	50	12	0.12	TO-220		151-1171-00
MTP15N05EL	50	15	0.1	TO-220	Logic level	151-1179-00
BUZ11A/IRFZ30	50	25	0.06	TO-220		151-1199-00
IRFZ40/MTP50N05E	50	35	0.028	TO-220		151-1224-00
MTP75N05HD	50	75	0.0095	TO-220		151-1302-00
VN0106N3/VN0606L	60	0.5	3.0	TO-92 T&A	Logic level	151-1121-01
MTP30N08M	80	30	0.065	TO-220 w/5 pins	w/current sense	151-1287-00
IRFD110	100	1.0	0.6	DIP04.3		151-1234-00
IRF530	100	14	0.16	TO-220		151-1136-00
IRF540/MTP33N10E	100	28	0.077	TO-220		151-1161-01
IRF630	200	9.0	0.4	TO-220		151-1137-01
IRFP240	200	20	0.18	TO-247		151-1216-00
VN0640N5	400	0.75	10	TO-220		151-1258-00
IRF710/MTP4N40E	400	2.0	3.6	TO-220		151-1151-00
IRF730/MTP5N40E	400	5.5	1.0	TO-220		151-1141-00
IRFP340/MTW10N40E	400	11	0.55	TO-247		151-1217-00
IRF820/MTP3N50E	500	2.5	3.0	TO-220		151-1152-00
IRF830	500	4.5	1.5	TO-220		151-1214-01
IRF840/MTP8N50E	500	8.0	0.85	TO-220		151-1195-00
IRFP440	500	8.8	0.85	TO-247		151-1204-00
IRFBC40/MTP6N60E	600	6.0	1.2	TO-220		151-1245-00
BUK456-800A	800	4.0	3.0	TO-220		151-1286-00
IRFPF50	900	6.8	1.6	TO-247		151-1260-00

Through-Hole Components: Power MOSFETs, Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

P-Channel Power MOSFETs – Suppliers: Motorola, Harris, IR, Supertex

Vendor P/N	V _{ds} (max) (V)	I _d (max) (A)	R _{ds(on)} (ohm)	Package	Comments	Tek P/N
VP0106N3	60	0.5	8.0	TO-92		151-1120-00
MTD2955E-1	60	12	0.3	TO-251	DPAK w/leads	151-1229-00
IRFD9110	100	0.7	1.2	DIP04.3		151-1183-00
IRFD9120	100	1.0	0.6	DIP04.3		151-1176-00
IRF9520	100	6.0	0.6	TO-220		151-1128-00
IRF9530	100	12	0.3	TO-220		151-1253-00
MTW20P10	100	20	0.15	TO-247		151-1257-00
IRF9630/MTP6P20E	200	6.0	1.0	TO-220		151-1252-00
VP0640N5	400	0.4	15	TO-220		151-1246-00
MTP2P50	500	2.0	6.0	TO-220		151-1169-00

General Purpose Bipolar Op-Amps – Suppliers: Harris, National, TI, Motorola

Vendor P/N	Qty.	Pkg.	V _{os} (mV)	I _b	BW (MHz)	SR (V/uS)	SMT Equiv.	Additional Information	Tek P/N
CA3080E	single	DIP08.3	5.0	5.0uA	2.0	50	156-5487-01	transconductance	156-0912-00
LM324N	quad	DIP14.3	7.0	250nA	1.0	0.5	156-5096-00	"single supply", Class B output stage	156-0495-00
LM358N	dual	DIP08.3	7.0	250nA	1.0	0.5	156-5018-01	"single supply", Class B output stage	156-0853-00
LM741CN	single	DIP08.3	6.0	500nA	1.0	0.5	156-6336-00		156-0067-00
MC1458P	dual	DIP08.3	6.0	500nA	1.0	0.5	156-5017-01		156-0158-00
NE5532N	dual	DIP08.3	4.0	800nA	10	9.0	156-6706-00	low noise, high out- put current, audio specs	156-1272-00
NE5534N	single	DIP08.3	4.0	1.5uA	10	13	156-5095-01	low noise, high out- put current, audio specs	156-1338-00
LM318N	single	DIP08.3	10	200nA	15	50		high slew rate	156-0742-00
MC3403P	quad	DIP14.3	10	500nA	1.0	0.35		"single supply", Class AB output stage	156-2667-00
4560	dual	DIP08.3	6.0	500nA	3.0	2.0		high output current	156-2702-00

General Purpose BiFET Op-Amps – Suppliers: Analog Devices, National, TI, Motorola, Burr-Brown

Vendor P/N	Qty.	Pkg.	V _{os} (mV)	I _b	BW (MHz)	SR (V/uS)	SMT Equiv.	Additional Information	Tek P/N
LF351N	single	DIP08.3	10	200	3.0	13	156-5023-01		156-1149-00
LF412CN	dual	DIP08.3	3.0	200	3.0	8.0			156-1699-00
MC34082P	dual	DIP08.3	3.0	200	6.0	20			156-2873-00

(General Purpose BiFET Op-Amps continued on page 62)

Through-Hole Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

General Purpose BiFET Op-Amps (cont.) – Suppliers: Analog Devices, National, TI, Motorola, Burr-Brown

Vendor P/N	Qty.	Pkg.	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	SMT Equiv.	Additional Information	Tek P/N
MC34083P	dual	DIP08.3	3.0	200	12	40		decompensated, stable $A_v=+2$	156-2880-00
MC34084P	quad	DIP14.3	12	200	6.0	20			156-2817-00
MC34085P	quad	DIP14.3	12	200	12	40		decompensated, stable $A_v=+2$	156-2614-00
OP215GN8	dual	DIP08.3	3.0	200	3.0	8			156-3167-00
TL062CP	dual	DIP08.3	15	400	1.0	3.5		low power	156-1291-00
TL072CP	dual	DIP08.3	10	200	3.0	13	156-5138-01		156-1191-00
TL072ACP	dual	DIP08.3	6.0	200	3.0	13		lower Vos than std TL072	156-1191-01
TL074CN	quad	DIP14.3	10	200	3.0	13	156-2051-01		156-1200-00
TL074BCN	quad	DIP14.3	3.0	200	3.0	13			156-4320-00

General Purpose CMOS Op-Amps – Supplier: TI

Vendor P/N	Qty.	Pkg.	Vos (mV)	Ib	BW (MHz)	SR (V/uS)	SMT Equiv.	Additional Information	Tek P/N
TLC271ACP	single	DIP08.3	5.0	600pA (OT)	2.2	5.3	156-5276-00	selectable bias	156-2469-00
TLC272CP	dual	DIP08.3	10	600pA (OT)	2.2	5.3			156-3778-00
TLC27L2ACP	dual	DIP08.3	5.0	600pA (OT)	0.11	0.05		micropower	156-2346-00
TLC274CN	quad	DIP14.3	10	600pA (OT)	2.2	5.3	156-6509-00		156-2854-00

Bipolar Precision (Vos < 2mV) Op-Amps – Suppliers: Analog Devices, National, Linear Technology

Vendor P/N	Qty.	Pkg.	Vos (uV)	dVos/dT (uV/C)	Ib (nA)	BW (MHz)	SMT Equiv.	Additional Information	Tek P/N
LM308AN	single	DIP08.3	500	5.0	7.0	0.3		low power	156-0854-00
LT1007CN8	single	DIP08.3	60	1.0	55	5.0		very low noise, high output drive, audio specs	156-2695-00
LT1013CN8	dual	DIP08.3	300	2.5	30	0.5	156-5706-01	"single supply", very low power	156-3095-00
OP07CP	single	DIP08.3	150	1.8	7.0	0.6	156-5082-01		156-1582-00
OP14EP	dual	DIP08.3	750	8.0	50	0.8		matched Vos and CMRR	156-1843-00

(Bipolar Precision Op-Amps continued on page 63)

Through-Hole Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Bipolar Precision ($V_{os} < 2mV$) Op-Amps (cont.) – Supplier: Analog Devices, National, Linear Technology

Vendor P/N	Qty.	Pkg.	V_{os} (uV)	dV_{os}/dT (uV/ C)	I_b (nA)	BW (MHz)	SMT Equiv.	Additional Information	Tek P/N
OP27GP	single	DIP08.3	100	1.8	80	8.0	156-5690-01	low noise, high output drive, audio specs	156-1851-00
OP97FP	single	DIP08.3	75	2.0	0.15	0.9		low power	156-3666-00
OP227GN	dual	DIP14.3	180	1.8	80	5.0		many matching specs	156-2620-00
OP297FP	dual	DIP08.3	100	2.0	0.15	0.5		low power	156-4174-00
OP400EY	quad	DIP14.3	150	1.2	3.0	0.5		low power	156-3168-00

CMOS Precision ($V_{os} < 2mV$) Op-Amps – Supplier: TI

Vendor P/N	Qty.	Pkg.	V_{os} (uV)	dV_{os}/dT (uV/ C)	I_b (nA)	BW (MHz)	SMT Equiv.	Additional Information	Tek P/N
TLC2652AIP	single	DIP08.3	1.0	0.03	150p A(OT)	1.9	156-6799-00	Chopper stabilized, extended temp range	156-3977-00

BiFET Precision ($V_{os} < 2mV$) And/Or Fast Op-Amps –

Suppliers: Analog Devices, National, Linear Technology, Motorola

Vendor P/N	Qty.	Pkg.	V_{os} (mV)	dV_{os}/dT (uV/ C)	I_b (pA)	BW (MHz)	SR (V/uS)	SMT Equiv.	Add. Info.	Tek P/N
AD648JN	dual	DIP08.3	2.0	20	20	0.8	1.0			156-3982-00
AD711KN	single	DIP08.3	0.5	10	50	3.4	18			156-3756-00
AD843KN	single	DIP08.3	2.0		2500	34	160			156-4292-00
AD845JN	single	DIP08.3	1.5	20	2000	13	80			156-4294-00
LF411ACN	single	DIP08.3	0.5	10	200	3.0	10			156-2885-00
LF412ACN	dual	DIP08.3	1.0	10	200	3.0	10			156-1688-00
LT1055CN8	single	DIP08.3	0.7	12	50	4.5	7.5			156-3125-00
LT1057ACN8	dual	DIP08.3	0.8	16	75	3.0	8.0			156-3813-00
MC34081BP	single	DIP08.3	2.0	-	200	8.0	25	156-5627-01		156-3781-00
OP42FZ	single	DIP08.3	1.5		250	10	40			156-3457-00

High Speed (Voltage Mode) Bipolar Op-Amps – Suppliers: Analog Devices, Harris, National

Vendor P/N	Qty.	Pkg.	V_{os} (mV)	I_b (uA)	BW (MHz)	SR (V/uS)	Max. Oper. Supply Volt.	SMT Equiv.	Add. Info.	Tek P/N
AD829JN	single	DIP08.3	1.0	7.0	750	230	+/-15		uncompensated, low noise for video	156-4229-00

(High Speed Bipolar Op-Amps continued on page 64)

Through-Hole Components: Op-Amps

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

High Speed (Voltage Mode) Bipolar Op-Amps (cont.) – Suppliers: Analog Devices, Harris, National

Vendor P/N	Qty.	Pkg.	Vos (mV)	Ib (uA)	BW (MHz)	SR (V/uS)	Max. Oper. Supply Volt.	SMT Equiv.	Add. Info.	Tek P/N
AD841KN	single	DIP08.3	1.0	5.0	40	200	+/-15		unity gain stable	156-4043-00
AD842JN	single	DIP14.3	1.5	8.0	80	300	+/-15		100mA output current coax driver, Av=+2 stable	156-4291-00
AD847JP	single	DIP08.3	1.0	6.6	50	300	+/-15	156-6643-00	unity gain stable, drives any capacitive load	156-3764-00
AD848JN	single	DIP08.3	1.0	6.6	175	225	+/-15		decompensated, Av=+5 stable, lower power	156-4293-00
HA1-2539-5	single	DIP14.3	15	20	600	550	+/-15		decompensated, Av=+10 stable	156-2804-00
HA1-2540-5	single	DIP14.3	15	20	400	320	+/-15		decompensated, Av=+10 stable	156-3282-00
HA1-2542-5	single	DIP14.3	10	35	70	300	+/-15		100mA output current coax driver, Av=+2 stable	156-3218-00
HA2-2542-5	single	TO-8	10	35	70	300	+/-15		100mA output current coax driver, Av=+2 stable	156-3005-00
HA1-5195-1	single	DIP14.3	6.0	15	150	160	+/-15		decompensated, Av=+5 stable	156-3281-00
LM6361N	single	DIP08.3	20	5.0	50	300	+/-15	156-5853-01	unity gain stable	156-3226-00

High Speed Current Feedback Op-Amps – Suppliers: Analog Devices, Comlinear, Burr-Brown, Elantec

Vendor P/N	Pkg.	Vos (mV)	Ib(+in/-in) (uA)	BW (MHz)	SR (V/uS)	Max. Oper. Supply Volt.	Gain Range		SMT Equiv.	Add. Info.	Tek P/N
AD844AN	DIP08.3	0.3	0.4/0.45	60	1200	+/-15	-1 to -10				156-3940-00
AD9617JN	DIP08.3	2.2	35/50	190	1400	+/-5	(+/-)1 to 40		156-6297-01		156-4024-00

(High Speed Current Feedback Op-Amps continued on page 65)

Through-Hole Components: Op-Amps, Converters

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

High Speed Current Feedback Op-Amps (cont.) –

Suppliers: Analog Devices, Comlinear, Burr-Brown, Elantec

Vendor P/N	Pkg.	Vos (mV)	Ib(+in/- in) (uA)	BW (MHz)	SR (V/uS)	Max. Oper. Supply Volt.	Gain Range	SMT Equiv.	Add. Info.	Tek P/N
AD9618JN	DIP08.3	2.2	35/45	130	1400	+/-5	+5/-1 to +/-40			156-4169-00
CLC400AJE	DIP08.3	5.0	20/20	200	700	+/-5	(+/-)1 to 8	156-6073 -00		156-3432-00
CLC404AJE	DIP08.3	5.0	22/18	175	2600	+/-5	+2 to +21, -1 to -20	156-6504 -00	12mA sup- ply current	156-3962-00
CLC410AJE/ EL2070CS	DIP08.3	5.0	20/20	200	700	+/-5	(+/-)1 to 8	156-6647 -00	with disable	156-4213-00
CLC502AJE	DIP08.3	1.6	25/30	150	800	+/-5	(+/-)1 to 8	156-6570 -00	output clamping, 25nS to 0.01% set- tling time	156-4137-00
EL2020CN	DIP08.3	10	15/40	50	500	+/-15	(+/-)1 to 10		with disable	156-3599-00
HA3-5020-5	DIP08.3	8.0	8.0/20	100	600	+/-15	(+/-)1 to 10		w/disable	156-4228-00
OPA603AP	DIP08.3	5.0	5.0/25	100	1000	+/-15	(+/-)1 to 100	156-6560 -00	150mA peak output current	156-4170-00

Special Purpose Op-Amps – Suppliers: Maxim, Comlinear, National, Analog Devices

Vendor P/N	Description	Package	Tek P/N
MAX453CPA	CMOS, OP-AMP, W/2-INPUT MUX	DIP08.3	156-3852-00
CLC110AJP	WIDEBAND VOLTAGE FOLLOWER	DIP08.3	156-4011-00
LM6325N	UNITY GAIN BUFFER, 50MHZ, 300MA OUTPUT, W/SHUT DOWN CON- TROL	DIP14.3	156-4290-00
AD9620AD	UNITY GAIN BUFFER, 32MHZ, 1500V/US	DIP08.3	156-4359-00

Converters

8-bit D/A Converters – Supplier: Analog Devices

Vendor P/N	Description	Package	Tek P/N
DAC08HP	85NS, CURRENT OUTPUT, MULTIPLYING	DIP16.3	156-1255-00
DAC8840FP	CMOS, OCTAL, VOLTAGE OUT, SEPARATE VREF IN- PUTS, SERIAL DATA INPUT	DIP24.3	156-4417-00

Through-Hole Components: Converters

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

12-bit D/A Converters – Supplier: Analog Devices

Vendor P/N	Description	Package	Tek P/N
AD667JN	VOLTAGE OUT, MPU COMPATIBLE, W/REFERENCE	DIP28.6	156-2459-00
AD7237JN	CMOS, DUAL, VOLTAGE OUT, MPU COMPATIBLE, BYTE LOADING, REFERENCE, 16MM T&R	DIP24.3	156-4082-00
AD7245JN	CMOS, VOLTAGE OUT, W/REFERENCE, MPU COMPATIBLE, PARALLEL LOAD	DIP24.3	156-3639-00
AD7537JN	CMOS, DUAL, CURRENT OUT, MPU COMPATIBLE, BYTE LOADING, MULTIPLYING	DIP24.3	156-3249-00
AD7541AKN	CMOS, CURRENT OUT, MULTIPLYING	DIP18.3	156-1548-00
AD7545AKN	CMOS, CURRENT OUT, MPU COMPATIBLE, MULTIPLYING	DIP20.3	156-2870-00
AD7547JN	CMOS, DUAL, CURRENT OUT, MPU COMPATIBLE, PARALLEL LOADING	DIP24.3	156-3240-00
AD7548JN	CMOS, 1.5US, CURRENT OUT, MPU COMPATIBLE, BYTE LOADING, MULTIPLYING	DIP20.3	156-3261-00
AD9712BAN	100MHZ, ECL INPUT, W/LATCHES, CURRENT OUT, W/REFERENCE	DIP28.6	156-4196-00
DAC312HP/AM6012	300NS, CURRENT OUT, MULTIPLYING	DIP20.3	156-1589-00

14, 16, 18 & 20-bit D/A Converters – Suppliers: Analog Devices, Burr-Brown

Vendor P/N	Description	Package	Tek P/N
AD7534JN	CMOS, 14 BIT, 1.5US, CURRENT OUT, MPU COMPATIBLE, BYTE LOADING, MULTIPLYING	DIP20.3	156-3151-00
AD1856N/PCM56P	16 BIT, 200KHZ, VOLTAGE/CURRENT OUT, SERIAL INPUT, AUDIO SPECS	DIP16.3	156-3378-00
AD1860N-K	BICMOS, 18 BIT, 176KHZ, VOLTAGE/CURRENT OUT, SERIAL DATA INPUT, 0.0024% MAX THD, AUDIO	DIP16.3	156-4040-00
DAC702KP	16 BIT, 3.0US, CURRENT OUT, W/REFERENCE	DIP24.6	156-4296-00
DAC703KP	16 BIT, 4.0US, VOLTAGE OUT, REFERENCE	DIP24.6	156-3044-00
PCM63P-K	CMOS, 20 BIT, -90DB, SERIAL, 200NS SETTLING TIME	DIP28.6	156-4407-00

Converters, A/D – Supplier: Motorola, Analog Devices

# of Bits	Description	Package	Vendor P/N	Tek P/N
8-BIT	25MSPS, FLASH, 1W	DIP24.6	MC10319	156-2800-00
8-BIT	10US, SAR, DIFFERENTIAL IN	DIP20.3	AD670	156-3214-00
8-BIT	40US, SAR, DIFFERENTIAL INPUT	DIP20.3	ADC0841	156-4096-00

Converters, D/A – Supplier: Analog Devices

# of Bits	Description	Package	Vendor P/N	Tek P/N
8-BIT	85NS, CURRENT OUT, MULTIPLYING	DIP16.3	DAC08HP	156-1255-00
10-BIT	150NS, CURRENT OUT, MULTIPLYING	DIP18.3	DAC10GP	156-1638-00
12-BIT	CURRENT OUT, MULTIPLYING	DIP20.3	AM6012/DAC312	156-1589-00

Through-Hole Components: CMOS RAMDACs, Analog Switches, Analog Multiplexers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

CMOS RAMDACs for Video Displays – Supplier: Analog Devices

Vendor P/N	Description	Package	Tek P/N
BT476	TRIPLE 6 BIT, 35MHZ, 256X18 COLOR PALETTE MEMORY	DIP28.6	156-3687-00

Analog Switches – Suppliers: Siliconix, Philips, Motorola

Vendor P/N	Function	Analog In-put Range(V)	R _(on) (ohm)	Process	Package	Surface Mount P/N	Tek P/N
DG403DJ	Dual SPDT	+/-15	45	Si-gate CMOS	DIP16.3	156-6707-00	156-4038-00
DG405DJ	Quad DPST NO	+/-15	45	Si-gate CMOS	DIP16.3	156-6715-00	156-3166-00
DG412DJ	Quad DPST NO	+/-15	35	Si-gate CMOS	DIP16.3	156-6699-00	156-4412-00
DG417DJ	Single SPST NO	+/-15	35	Si-gate CMOS	DIP08.3	DG417DY	156-4143-00
DG444DJ	Quad SPST NC	+/-15	85	Si-gate CMOS	DIP16.3	156-6059-01	156-3972-00
DG541DJ	Quad video "T"-sw	+8~-5	70	DMOS/CMOS	DIP16.3	DG541DY	156-4428-00
MC14066BP	Quad SPST NC	+/-7.5	280	M-gate CMOS	DIP14.3	MC14066D	156-0644-00
SD5000	Quad DMOS FETs	+/-10	70	DMOS	DIP16.3	156-5282-00	156-1303-00
74HC4016N	Quad SPST NC	+/-5	170	HCMOS	DIP16.3	74HC4016D	156-3805-00

Analog Multiplexers – Suppliers: Siliconix, Philips, Motorola

Vendor P/N	Function	Analog In-put Range (V)	R _(on) (ohm)	Process	Package	Surface Mount P/N	Tek P/N
DG408DJ	Dual 4-ch	+/-15	100	Si-gate CMOS	DIP16.3	156-6311-00	156-3978-00
DG538DJ	8-ch or dual 4-ch video	+8~-5	90	DMOS/CMOS	DIP28.6	DG538DN	156-3598-00
MAX310CPE	Single 8-ch video	+12/-15	250	CMOS	DIP16.3	156-6250-00	156-3171-00
MC14051BCP	Single 8-ch	+/-7.5	280	M-gate CMOS	DIP16.3	156-5097-01	156-0513-00
MC14052BCP	Dual 4-ch	+/-7.5	280	M-gate CMOS	DIP16.3	156-5570-00	156-0514-00
MC14053BCP	Triple 2-ch	+/-7.5	280	M-gate CMOS	DIP16.3	156-5571-00	156-0515-00
74HC4051N	Single 8-ch	+/-5	120	HCMOS	DIP16.3	156-5050-01	156-2605-00
74HC4052N	Dual 4-ch	+/-5	120	HCMOS	DIP16.3	156-5120-01	156-2476-00
74HC4053N	Triple 2-ch	+/-5	120	HCMOS	DIP16.3	156-5073-01	156-2571-00



Through-Hole Components: Differential/Instrumentation Amps, Audio Power Amps, RF/Microwave Gain Blocks, RF Mixers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Differential/Instrumentation Amplifiers

Vendor P/N	Description	Package	Vendor	Tek P/N
AMP01EX	INSTRUMENTATION	DIP18.3	Analog Devices	156-2261-00
CA3054	DUAL INDEPENDENT DIFFERENTIAL AMPLIFIER	DIP14.3	Harris	156-1349-00
CA3102E	DUAL, DIFFERENTIAL, W/CURRENT SOURCE TRANS, 1.0GHZ FT	DIP14.3	Harris	156-0534-00
CLC520AJP	DIFFERENTIAL INPUT, SINGLE OUTPUT, GAIN CONTROL, 160MHZ, 40DB AGC RANGE	DIP14.3	Comlinear	156-4136-00
LT1194CN8	DIFFERENCE AMPLIFIER, 35MHZ, 500V/US, 20DB GAIN, LIMITING	DIP08.3	Linear Technology	156-4408-00
MAX435CSD	TRANSCONDUCTANCE DIFFERENTIAL INPUT/OUTPUT 275MHZ CURRENT OUTPUT	DIP14.3	Maxim	156-4507-00
MAX436CSD	TRANSCONDUCTANCE DIFFERENTIAL INPUT, 275MHZ, CURRENT OUTPUT	DIP14.3	Maxim	156-4509-00

Audio Power Amplifiers

Vendor P/N	Description	Package	Vendor	Tek P/N
LM386N-1	0.25W AUDIO POWER AMPLIFIER	DIP08.3	National	156-2353-00
LM2878P	DUAL, 5.0W AUDIO POWER AMPLIFIER	SIP11	National	156-4404-00
TDA1013B	4.0W AUDIO POWER AMPLIFIER W/DC VOLUME CONTROL	SIP09	Philips	156-2884-00
TDA2030AH	14W AUDIO POWER AMPLIFIER	TO-220 w/5 pins	SGS-Thomson	156-1760-00
LM831N	DUAL 0.44W AUDIO POWER AMPLIFIER, BTL	DIP16.3	National	156-4505-00
TDA1519B	DUAL, 6.0W AUDIO POWER AMPLIFIER, BTL	SIP09	Philips	156-4518-00
TDA7053	DUAL, 1.0W AUDIO POWER AMPLIFIER, BTL	DIP16.3	Philips	156-4497-00

RF/Microwave Gain Blocks

Vendor P/N	Description	Package	Vendor	Tek P/N
MSA-0304	MICROWAVE, 12DB GAIN, 2.5GHZ	4 pin 145 mil X	Hewlett-Packard (Avantek)	156-3665-00
MSA-0485	MICROWAVE, 8.2DB GAIN, 1.0GHZ	4 pin 85 mil X	Hewlett-Packard (Avantek)	156-4200-00
MSA-0520	MICROWAVE, 7.5DB GAIN, 2.5GHZ, HIGH OUTPUT POWER	4 pin 200 mil ceramic X	Hewlett-Packard (Avantek)	156-4013-00
NE5205AN	RF AMP, 20DB GAIN, 600MHZ	DIP08.3	Philips	156-3047-00

RF Mixers

Vendor P/N	Description	Package	Vendor	Tek P/N
NE602AN	DOUBLE-BALANCED MIXER AND OSCILLATOR	DIP08.3	Philips	156-4501-00

Through-Hole Components: FM IF/Detectors, Buffers, Misc. Amps, Comparators

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

FM IF/ Detectors

Vendor P/N	Description	Package	Vendor	Tek P/N
MC13055P	FM IF/DETECTOR, FSK DATA SHAPER, W/RSSI	DIP16.3	Motorola	156-4199-00

Log Amps

Vendor P/N	Description	Package	Vendor	Tek P/N
AD606JN	80DB DYNAMIC RANGE, 50 MHZ, LIMITING, RSSI	DIP16.3	Analog Devices	156-4500-00
ICL8048CCJE	LOGARITHMIC, 60/120DB DYNAMIC RANGE	DIP16.3	Harris	156-4276-00

Buffers

Vendor P/N	Description	Package	Vendor	Tek P/N
EL2003CN	UNITY GAIN BUFFER, 100MHZ, 100MA OUTPUT CURRENT	DIP08.3	Elantec	156-3750-00
HA7-5002-5	BUFFER, 1300V/US SLEW RATE, 200MA OUTPUT CURRENT	DIP08.3	Harris	156-2848-00
HA-5033	UNITY GAIN FOLLOWER/BUFFER, 250MHZ, 80MA OUTPUT CURRENT	DIP08.3	Harris	156-1984-00
LT1010CT	OP-AMP POWER BUFFER, 150MA OUTPUT CURRENT	TO-220 w/5 pins	Linear Technology	156-2776-00

Misc. Amps

Vendor P/N	Description	Package	Vendor	Tek P/N
EL2090CN	100MHZ, CURRENT FEEDBACK, SAMPLE/HOLD, VIDEO DC RESTORATION	DIP14.3	Elantec	156-4150-00

Comparators

Vendor P/N	Description	Package	Vendor	Tek P/N
AD9698KN	DUAL, TTL, 9NS, LATCH	DIP08.3	Analog Devices	156-4430-00
AD96685BH	ECL, 2.5NS, W/LATCH	TO-100	Analog Devices	156-1344-00
EL2019CN	20NS, W/MASTER-SLAVE FLIP-FLOP	DIP08.3	Elantec	156-3359-00
LM311N	OPEN COLLECTOR, 200NS	DIP08.3	TI	156-1126-00
LM319N	DUAL, OPEN COLLECTOR, 80NS	DIP14.3	National	156-1226-00
LM339N	QUAD, SINGLE SUPPLY, 300NS	DIP14.3	TI	156-0411-00
LM360N	TTL OUT,20NS	DIP08.3	National	156-4167-00
LM361N	TTL, 20NS, COMPLEMENTARY OUTPUT, W/ STROBES	DIP14.3	National	156-1324-00

Through-Hole Components: Comparators, Video Subsystems, Analog Multipliers, Timers,

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

*New adds to Rev 7.0 are shaded in gray.***Comparators**

Vendor P/N	Description	Package	Vendor	Tek P/N
LM393N	DUAL, OPEN COLLECTOR, 300NS	DIP08.3	TI	156-1225-00
LT1016CN8	TTL OUT, 14NS, LATCH, BUILT-IN HYSTERESIS	DIP08.3	TI	156-3436-00
LT1018CN8	DUAL, 10US, LOW OFFSET, LOW POWER	DIP08.3	Linear Technology	156-2901-00
MAX9686BCPA	TTL OUT, 9NS, LATCH	DIP08.3	Maxim	156-4135-00
NE521N	TTL, 12NS, DUAL, W/STROBES	DIP14.3	Philips	156-1339-00
TLC374CN	QUAD, CMOS, OPEN DRAIN	DIP14.3	TI	156-2466-00
VC7696PJ	TTL, 10NS	DIP08.3	VTC	156-4029-00

Video Subsystems – Suppliers: Motorola, National, Philips SGS-Thomson

Vendor P/N	Description	Package	Tek P/N
LM1201N	VIDEO AMP, 200MHZ, W/CONTRAST & BRIGHT CONTROL	DIP16.3	156-4232-00
LM1823N	IF AMPLIFIER, PLL DETECTOR, W/AGC	DIP28.6	156-4244-00
LM1881N	SYNC SEPARATOR	DIP08.3	156-3521-00
MC1391P	HORIZONTAL PROCESSOR	DIP08.3	156-1147-00
MC44301P	TV IF W/PLL DETECTOR, VIDEO & SOUND OUTPUT	DIP24.3	156-4255-00
TDA1175	VERTICAL DEFLECTION SYSTEM	FINDIP	156-1693-03
TDA1675	VERTICAL DEFLECTION SYSTEM	TO-220 w/15 pins	156-3614-00
TDA2595N	HORIZONTAL SYNC PROCESSOR	DIP18.3	156-3131-00

Analog Multipliers – Suppliers: Analog Devices, Motorola

Vendor P/N	Description	Package	Tek P/N
AD539JN	WIDEBAND, DUAL CHANNEL, TWO QUADRANT MULTIPLY/DIVIDE	DIP16.3	156-2875-00
AD834JN	FOUR QUADRANT, 500 MHZ	DIP08.3	156-3961-00
MC1495L	FOUR QUADRANT	DIP14.3	156-0407-00
MC1496P	BALANCED MODULATOR/DEMODULATOR	DIP14.3	156-2460-00

Timers – Supplier: TI

Vendor P/N	Description	Package	Tek P/N
LM555CN	TIMER	DIP08.3	156-0402-00
TLC555CP	CMOS	DIP08.3	156-1408-02
NE556N	DUAL	DIP14.3	156-3936-00

Through-Hole Components: Misc. Linear Functions, PLLs & Frequency Synthesizers, MPU Reset Generators, Nonvolatile CMOS RAM Battery Backup Controllers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Misc. Linear Functions – Suppliers: Analog Devices, Siliconix, National, Motorola, Teledyne

Vendor P/N	Description	Package	Tek P/N
AD592AN	TEMPERATURE SENSOR, CURRENT OUTPUT	TO-92	156-2461-00
LM334Z	ADJUSTABLE CURRENT SOURCE	TO-92	156-3235-00
AD637JQ	TRUE RMS TO DC CONVERTER	DIP14.3	156-3096-00
TC426CPA	POWER MOSFET GATE DRIVER, DUAL, INVERTING OUTPUTS	DIP08.3	156-2458-00
D469ADJ	POWER MOSFET GATE DRIVER, QUAD	DIP14.3	156-2462-00

PLLs and Frequency Synthesizers – Suppliers: Motorola, MicroLinear, Philips

Vendor P/N	Description	Package	Tek P/N
MC14046BCP	CMOS, PLL, LOW SPEED	DIP16.3	156-0704-00
MC145155P2	CMOS, FREQ SYNTH, SERIAL DATA INPUT, SINGLE MODULE PRESCALER INTERFACE	DIP18.3	156-1718-00
MC145146P1	CMOS, FREQ SYNTH, W/PLL, 4 BIT DATA BUS INPUT	DIP20.3	156-1742-00
MC145170P	CMOS, FREQ SYNTH, W/PLL, SERIAL DATA INPUT, 160MHZ	DIP16.3	156-4274-00
ML2036CP	CMOS, WAVEFORM GENERATOR, DIGITALLY PROGRAMMABLE SINE WAVE GENERATOR, DC-50KHZ	DIP14.3	156-4416-00
NE564	PLL, 50MHZ	DIP16.3	156-3785-00
74HCT4046A	CMOS, PLL	DIP16.3	156-3004-00

MPU Reset Generators – Suppliers: TI, Motorola, Dallas, Maxim

Vendor P/N	Description	Package	Tek P/N
DS1231-50	CMOS, 5V, NMI OUTPUT	DIP08.3	156-3217-00
DS1232	CMOS, 5V, MPU WATCHDOG TIMER	DIP08.3	156-3050-00
MAX690CPA	CMOS, WATCHDOG TIMER, BATTERY BACKUP, UV DETECT	DIP08.3	156-3547-00
MAX691CPE	CMOS, WATCHDOG TIMER, BATTERY BACKUP, UV DETECT	DIP16.3	156-3797-00
MC34064P-5	5V	TO-92	156-4072-00
TL7705ACP	5V	DIP08.3	156-2396-00
TL7712ACP	12V	DIP08.3	156-4073-00

Nonvolatile CMOS RAM Battery Backup Controllers – Supplier: Dallas

Vendor P/N	Description	Package	Tek P/N
DS1210	SAFETY CONTROLLED	DIP08.3	156-2760-00
DS1211	SAFETY CONTROLLED, W/3-8 DECODER	DIP20.3	156-3849-00
DS1221	SAFETY CONTROLLED, W/2-4 DECODER	DIP16.3	156-2706-00

Through-Hole Components: Linear Voltage Regulators, Low Dropout Linear Voltage Regulators, Switching Regulator Controllers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Linear Voltage Regulators – Suppliers: Motorola, TI, National

Vendor P/N	Output Voltage (V)	Output Current (A)	Tolerance (%)	Package	Additional Info	Surface Mount P/N	Tek P/N
MC78L05ACP	5.0	0.1	5	TO-92	T&A	156-5298-01	156-0991-02
MC7805CT	5.0	1.0	4	TO-220			156-0277-00
MC7805ACT	5.0	1.0	2	TO-220			156-2698-00
MC78L12ACP	12	0.1	5	TO-92		156-6035-00	156-2735-00
MC7812ACT	12	1.0	2	TO-220			156-2558-00
MC78L15ACP	15	0.1	4	TO-92			156-1261-00
MC7815CT	15	1.0	4	TO-220			156-0312-00
LM723CN	ADJ	0.1	5	DIP14.3	User-set current limit	156-6281-00	156-0071-00
TL431CLP	ADJ	0.1	2.2	TO-92	T&A, shunt	156-5297-01	156-1631-01
LM317T	ADJ	1.0	4	TO-220			156-1161-00
MC79L05ACP	-5.0	0.1	5	TO-92	T&A	156-5299-01	156-1150-01
MC7905CT	-5.0	1.0	4	TO-220			156-0846-00
MC7905.2CT	-5.2	1.0	4	TO-220			156-0655-00
MC79L12ACP	-12	0.1	5	TO-92			156-2263-00
MC7912ACT	-12	1.0	2	TO-220			156-2559-00
MC79L15ACP	-15	0.1	5	TO-92			156-1260-00
MC7915CT	-15	1.0	4	TO-220			156-0930-00
LM337T	-ADJ	1.0	4	TO-220			156-1451-00

Low Dropout Linear Voltage Regulators – Suppliers: National, Linear Technology

Vendor P/N	Output Voltage (V)	Output Current (A)	Tolerance (%)	Package	Additional Info	Surface Mount P/N	Tek P/N
LP2950ACZ-5.0	5.0	0.1	0.5	TO-92			156-3983-00
LP2951CN	ADJ	0.1	0.5	DIP08.3	Shutdown	156-5441-01	156-3462-00
LM2940CT-5.0	5.0	1.0	2	TO-220		156-6326-00	156-4178-00
LT1085CT	ADJ	3.0	1	TO-220			156-3842-00
LM2940CT-12	12	1.0	2	TO-220			156-3633-00
LM2990T-5.0	-5.0	1.0	2	TO-220			156-4157-00

Switching Regulator Controllers – Suppliers: Motorola, TI, Unitrode, Silicon General

Vendor P/N	Operating Mode	Output Structure	Package	Additional Info	Surface Mount P/N	Tek P/N
MC34060AP	Voltage mode PWM	SE OC/OE	DIP14.3			156-2395-00
TL594CN	Voltage mode PWM	PP OC/OE	DIP16.3		156-6084-01	156-1627-00
SG3525AN	Voltage mode PWM	PP TP	DIP16.3			156-2024-00
UC3842N	Current mode PWM	SE TP	DIP08.3			156-2524-00
UC3843N	Current mode PWM	SE TP	DIP08.3			156-4104-00

(Switching Regulator Controllers continued on page 73)

Through-Hole Components: Switching Regulators Controllers, Switching Regulators, Power & Motor Drivers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

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Switching Regulator Controllers (cont.) – Suppliers: Motorola, TI, Unitrode, Silicon General

Vendor P/N	Operating Mode	Output Structure	Package	Additional Info	Surface Mount P/N	Tek P/N
UC3844AN	Current mode PWM	SE TP	DIP08.3			156-4236-00
UC3845AN	Current mode PWM	SE TP	DIP08.3			156-4386-00
UC3846N	Current mode PWM	PP TP	DIP16.3			156-3827-00
MAX641ACPA	Current mode	SE	DIP08.3	5v out, step up, uses ext. pwr MOSFET		156-4139-00

Decode table for "Output Structure" in Switching Regulator Controllers:

SE: Single Ended

PP: Push-Pull

TP: Totem-Pole OC/OE: Uncommitted (open) collector(s) and emitter(s)

Switching Regulators – Suppliers: National, Siliconix, Linear Technology, Motorola

Vendor P/N	Operating Mode	Output Structure	Package	Additional Info	Surface Mount P/N	Tek P/N
LM2574N-5.0	Step-down/buck	5.0V/500mA	DIP08.3		156-6714-00	156-4395-00
LT1070CT	Multi-mode	5A switch	TO-220 w/5 pins			156-2764-00
LT1071CT	Multi-mode	2.5A switch	TO-220 w/5 pins			156-3213-00
LT1170CT	Multi-mode	5A switch	TO-220 w/5 pins	100kHz SW freq		156-4452-00
LT1174CN8-5	Step down, gated oscillator	5V, 540mA	DIP08.3	Shutdown	156-6672-01 (adj. version)	156-4508-00
MAX752CPA	Step up, current mode	Adj, 200mA	DIP08.3	Shutdown		156-4504-00
LT1172CN8	Multi-mode	1.25A switch	DIP08.3		156-6416-00	156-4358-00
Si7660CJ	+ to - conversion	1.5~10V/20 mA	DIP08.3			156-3984-00
LM78S40	SE OC/OE gated oscillator	1.0A switch	DIP16.3			156-1283-00
MC340663AP1	SE OC/OE gated oscillator	1.0A switch	DIP16.3		156-5871-01	156-3876-00

Power and Motor Drivers – Suppliers: Allegro, National, SGS-Thomson

Vendor P/N	Description	Package	Tek P/N
UCN5810A	BIMOS, 8 OUTPUTS, SERIAL INPUT W/LATCHES	DIP18.3	156-2669-00
UCN5841A	BIMOS, 8 OUTPUTS, SERIAL INPUT W/LATCHES	DIP18.3	156-2670-00
UCN5895A2	RELAY DRIVER, 8 BIT, SERIAL INPUT W/LATCHES, SOURCE OUTPUTS	DIP16.3	156-2710-00
UDN2585A	8-CHANNEL SOURCE DRIVER, LOW VOUT(SAT)	DIP18.3	156-2818-00
UDN2595A	BIPOLAR, 8 CHANNEL SATURATED SINK DRIVER, 20V, 100MA/DRIVER	DIP18.3	156-3653-00
UDN2981A	8 CHANNEL SOURCE DRIVER, 50V/350MA, W/CLAMP DIODES	DIP18.3	156-3654-00
LMD18200T	BIMOS, FULL BRIDGE DRIVER, DMOS OUTPUTS, CURRENT SENSE	11 PIN TO-220	156-4110-00

(Power & Motor Drivers continued on page 74)

Through-Hole Components: Power & Motor Drivers, VCOs, Prescalers & Phase-Frequency Detectors, Bipolar Transistor Arrays, Power & Motor Drivers, Voltage References, Battery Charger Controllers

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM
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Power and Motor Drivers (cont.) – Suppliers: Allegro, National, SGS-Thomson

Vendor P/N	Description	Package	Tek P/N
LMD18201T	BIMOS, FULL BRIDGE MOTOR DRIVER, 55V/3.0A	11 PIN TO-220	156-4263-00
L297	FOUR PHASE STEPPER MOTOR CONTROLLER	DIP20.3	156-4098-00
L298N	DUAL FULL BRIDGE DRIVER, 2 AMP/DRIVER	15 PIN TO-220	156-4099-00
L6204	BIMOS, DUAL FULL BRIDGE DRIVER, DMOS OUTPUTS, 0.5A/DRIVER	DIP20.3	156-4227-00
L6506	STEPPING MOTOR CURRENT CONTROLLER, FOUR CHANNEL	DIP18.3	156-4103-00

VCOs, Prescalers And Phase-Frequency Detectors – Supplier: Motorola

Vendor P/N	Description	Package	Tek P/N
MC1648P	ECL, VCO, 200MHZ	DIP14.3	156-0266-00
MC4044P	DUAL PHASE-FREQ DETECTOR	DIP14.3	156-0124-00
MC12009P	ECL, PRESCALER, DIVIDE BY 5/6, TWO MODULUS, 440MHZ, ECL AND TTL OUTPUTS	DIP16.3	156-3541-00
MC12015P	BIPOLAR, PRESCALER, DIVIDE BY 32/33, TWO MODULUS, 225MHZ	DIP08.3	156-1862-00
MC12040P	ECL, PHASE-FREQUENCY DETECTOR	DIP14.3	156-0518-00

Bipolar Transistor Arrays – Suppliers: Harris, Motorola, Analog Devices, Allegro

Vendor P/N	Description	Package	Tek P/N
CA3127E	5 NPN, 15V, 20MA, 1.0GHZ	DIP16.3	156-1294-00
EP2015CN	4 PNP, MONOLITHIC, 40V, 50MA, 350MHZ, AMPLIFIER, VBE MATCH	DIP14.3	156-3780-00
MAT04FP	4 NPN, VBE & GAIN MATCH	DIP14.3	156-3293-00
MC3346/ CA3046	5 NPN, (1)DIFF PAIR, (3)IND, 15V, 50MA, 300MHZ, AMPLIFIER	DIP14.3	156-0048-00
MC1413P/ ULN2003A	7 NPN, DARLINGTON, COMMON Emitter, OC W/CLAMP DIODES	DIP16.3	156-1245-00
MPQ3546	4 PNP, 12V, 200MA, SWITCHING	DIP14.3	156-3187-00
ULN2803A	8 NPN, DARLINGTON, COMMON Emitter, OC W/CLAMP DIODES	DIP18.3	156-3328-00

Voltage References – Suppliers: Analog Devices, Motorola, National, Linear Technology

Vendor P/N	Description	Package	Tek P/N
LM385BZ-1.2	1.235V, 1.0%, 150 PPM, SHUNT, MICROPOWER	TO-92	156-3019-00
LM4040BIZ-5.0	5.0V, 0.2%, 100 PPM, SHUNT	TO-92	156-4421-00
LT1021CCN8-5	5.0V, 0.05%, 20PPM, SERIES	DIP08.3	156-3608-00
LT1021CCN8-10	10V, 0.05%, 20 PPM, SERIES	DIP08.3	156-2842-00
MC1403U	2.5V, 1.0%, 40 PPM, SERIES	DIP08.3	156-1173-00
TLE2426CLP	1/2 Vin VIRTUAL GROUND GENERATOR, "RAIL SPLITTER"	TO-92	156-4403-00

Battery Charger Controllers – Supplier: Unitrode

Vendor P/N	Description	Package	Tek P/N
UC3906N	SEALED LEAD ACID BATTERY CHARGER	DIP16.3	156-3840-00

Through-Hole Components: LEDs, Diodes, Rectifiers

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

LEDs – Supplier: Hewlett Packard

Color & Wavelength	Package	Luminous Intensity		Additional Information	Industry P/N	Tek P/N
		mcd	Volt/Current			
Red, 635nm	T-1	2	5V	5V operation T&R	HLMP-1600-002	150-1152-00
Red, 626nm	T-1	3	10mA	T&R	HLMP-1302-002	150-1171-00
Amber, 585nm	T-1	2	10mA	T&R	HLMP-1401	150-1033-00
Green, 565nm	T-1	1	10mA	T&R	HLMP-1503	150-1078-00
Red 626nm	T-1 3/4	20	10mA		HLMP-3316	150-1059-00

LEDs, Right Angle – Supplier: Hewlett Packard

Color & Wavelength	Package	Luminous Intensity		Additional Information	Industry P/N	Tek P/N
		mcd	Volt/Current			
Red, 635nm	Subminia-ture	1	10mA	Right Angle Housing	HLMP-6300-010	150-1197-00
Yellow, 583nm	Subminia-ture	1	10mA	Right Angle Housing	HLMP-6400-010	150-1196-00
Yellow, 585nm	T-1	3	10mA	Right Angle Housing	HLMP-1402-010	150-1266-00

Diodes, Signal – Supplier: National

Vbr	If	Tr		Vf		Additional Information	Industry P/N	Tek P/N
		nS	@If/Ir	mV	@If			
40V	150mA	4	10ma /10mA	810	10mA	DO-35, T&R	1N4152	152-0141-02

Rectifiers – Supplier: Motorola, Philips

Vbr	If	Tr		Vf		Additional Information	Industry P/N	Tek P/N
		nS	@If/Ir	V	@If			
100V	8A	25	1A /30V	1.15	8A	TO-220	BYW29-100	152-0720-00
150V	3A	30*	.5A /1A	1	3.5A	SOD-64, T&R *Soft Recovery	BYV28-150	152-0814-00
150V	7A	35*	1A /30V	1.15	8A	TO-220 *Soft Recovery	BYW29-150	152-0810-00
200V	5A	200	1A /30V	1.1	5A	Axial Lead	MR822	152-0784-00

(Rectifiers continued on page 76)

Through-Hole Components: Rectifiers, Zener Diodes

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Rectifiers – Supplier: Motorola, Philips (cont.)

Vbr	If	Trr		Vf		Additional Information	Industry P/N	Tek P/N
		nS	@If/Ir	V	@If			
500V	8A	50	.5A /1A	.975	8A	TO-220	MUR850	152-0839-00
600V	1A	50	.5A /1A	1.25	1A	DO-41, T&R	MUR160	152-0886-00
600V	4A	50	.5A /1A	1.25	4A	Axial Lead, T&R	MUR460	152-1165-00
600V	1A	30*	.5A /1A	2.5V	1A	SOD-57, T&R *Soft Recovery	BYV26C	152-0863-00
600V	4A, Per Diode	35	1A/50A per uS	2.8V	4A	Dual, Common Cathode, TO-220	MURH860CT	152-1161-00
1000V	1.5A	300*	1A /30V	1.35V	1.5A	SOD-57, T&R *Soft Recovery	BYV96E	152-0897-00
1000V	8A	100	.5A /1A	1.8	8A	TO-220	MUR8100E	152-0841-00
1200V	10A	175	1A/50A per uS	2.2V	6.5A	TO-220	MUR10120E	152-1171-00

Rectifiers, Schottky – Supplier: Motorola

Vbr	If	Ifsm	Vf		Additional Information	Industry P/N	Tek P/N
			mV	@If			
35V	7.5A, Per Diode	150A	625	7.5A	TO-220, Dual Common Cathode	MBR1535CT	152-0600-00
35V	16A	150A	630	16A	TO-220	MBR1635	152-0884-00
40V	1A	25A	600	1A	Axial Lead	1N5819	152-0836-00
40V	3A	80A	525	3A	Axial Lead	1N5822	152-0670-00
45V	15A, Per Diode	150A	625	15A	TO-220, Dual Common Cathode	MBR2545CT	152-0827-00
100	10A	150A	800	10A	TO-220	MBR10100	152-1191-00
100	10A, Per Diode	150A	800	10A	TO-220, Dual Common Cathode	MBR20200CT	152-1128-00

Zener Diodes, Power – Supplier: Motorola

Vz	Izt	Zzk @ Izt	PD Watts	Additional Information	Industry P/N	Tek P/N
5.1V	49mA	7 Ohms	1W	DO-41,T&R	1N4733A	152-0691-00
6.2V	41mA	2 Ohms	1W	DO-41,T&R	1N4735A	152-0757-00
9.1V	28mA	5 Ohms	1W	DO-41,T&R	1N4739A	152-0612-00
15V	17mA	14 Ohms	1W	DO-41,T&R	1N4744A	152-0406-00
18V	65mA	2.5 Ohms	5W	Axial Lead	1N5355B	152-0783-00

Through-Hole Components: Switches

Curt Bernal, 627-6103, curtb@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Switches, Pushbutton, Signal – Supplier: ITT Schadow

Config.	Contact Type	Contact Rating		Additional Information	Industry P/N	Tek P/N
		Current	Voltage			
SPST,NO, MOM	Silver 300 Grams	1-50mA	20mV to 50V	W/O Gnd Pin, Sealed, Manual Insertion	KSA0M411	260-2280-00
SPST,NO, MOM	Silver 300 Grams	1-50mA	20mV to 50V	With Gnd Pin, Sealed, Manual Insertion	KSA1M411	260-2280-01
SPST,NO, MOM	Silver 130 Grams	1-50mA	20mV to 50V	With Gnd Pin, Sealed, Manual Insertion	KSA1M311	260-2550-00
SPST,NO, MOM	Gold 300 Grams	1-50mA	20mV to 50V	W/O Gnd Pin, Sealed, Right Angle Mnt, Vertical Insertion	KSA0V431	260-2549-00

Switches, DIP, Signal – Supplier: Grayhill

Config.	Contact Type	Contact Rating		Additional Information	Industry P/N	Tek P/N
		Current	Voltage			
SPST, 4 position	Gold over Nickel	150ma	30Vdc	Side Actuated Piano-Dip	76PSB04S	260-2174-00
SPST, 8 position	Gold over Nickel	150ma	30Vdc	Side Actuated Piano-Dip	76PSB08S	260-2285-00
SPDT, 3 position	Gold over Nickel	150ma	30Vdc	Raised Rocker Actuated, Right Angle Mounted	76SC03SRA	260-2558-00

Switches, Rocker, Signal – Supplier: C&K

Config.	Contact Type	Contact Rating		Additional Information	Industry P/N	Tek P/N
		Current	Voltage			
SPDT	Gold over Nickel	.4VA Max	20V AC or DC	Right Angle, PC Mnt, Process Sealed, Black	E101J1ABE2	260-2529-00

Switches, Rotary, Signal – Supplier: Grayhill

Config.	Contact Type	Contact Rating		Additional Information	Industry P/N	Tek P/N
		Current	Voltage			
Hexadecimal, (16 position)	Gold Over Nickel	30mA	30V	Flush Actuator, Perpendicular Mnt, Process Sealed	94HAB16	260-2535-00
Hexadecimal, (16 position)	Gold Over Nickel	30mA	30V	Flush Actuator, Right Angle Mnt, Process Sealed	94HAB16RA	260-2597-00

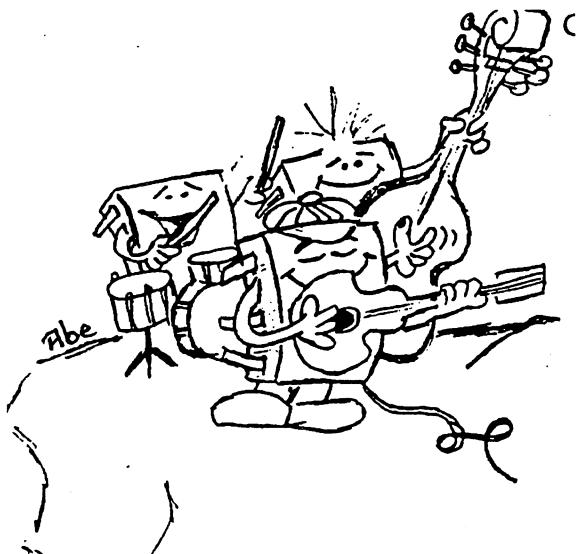
Through-Hole Components: Resistors

Al Lavalle, 627-6893, alllavalle@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Resistors, Small Body Axial Leaded – Supplier: Dale

Value	Tek P/N	Value	Tek P/N	Value	Tek P/N
0	131-4566-00	392	322-3154-00	12.1K	322-3297-00
10	322-3001-00	475	322-3162-00	15K	322-3306-00
12.1	322-3009-00	562	322-3169-00	18.2K	322-3314-00
15	322-3018-00	681	322-3177-00	20K	322-3318-00
18.2	322-3026-00	825	322-3185-00	22.1K	322-3322-00
22.1	322-3034-00	1K	322-3193-00	27.4K	322-3331-00
27.4	322-3043-00	1.21K	322-3201-00	33.2K	322-3339-00
33.2	322-3051-00	1.5K	322-3210-00	39.2K	322-3346-00
39.2	322-3058-00	1.82K	322-3218-00	47.5K	322-3354-00
47.5	322-3066-00	2K	322-3222-00	56.2K	322-3361-00
49.9	322-3068-00	2.21K	322-3226-00	68.1K	322-3369-00
56.2	322-3073-00	2.74K	322-3235-00	82.5K	322-3377-00
68.1	322-3081-00	3.32K	322-3243-00	100K	322-3385-00
75	322-3085-00	3.92K	322-3250-00	121K	322-3393-00
82.5	322-3089-00	4.75K	322-3258-00	150K	322-3402-00
100	322-3097-00	5.62K	322-3265-00	182K	322-3410-00
121	322-3105-00	6.81K	322-3273-00	200K	322-3414-00
150	322-3114-00	8.25K	322-3281-00	221K	322-3418-00
182	322-3122-00	10K	322-3289-00	274K	322-3427-00
221	322-3130-00	10.5K	322-3291-00	332K	322-3435-00
274	322-3139-00	11K	322-3293-00	475K	322-3450-00
332	322-3147-00	11.5K	322-3295-00	1M	322-3481-00



Through-Hole Components: Capacitors (Axial Package)

Al Lavalle, 627-6893, alllavalle@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Ceramic Capacitors – Supplier: AVX

Value	Tolerance	Voltage	Size	Package	Tek P/N
1.5pF	+/-0.25pF	100V	0.100 X 0.170	AXIAL	281-0940-00
2.2pF	+/-0.5pF	200V	0.100 X 0.170	AXIAL	281-0756-00
4.7pF	+/-0.5pF	100V	0.100 X 0.170	AXIAL	281-0893-00
5.6pF	+/-0.5pF	100V	0.100 X 0.170	AXIAL	281-0810-00
10pF	10%	100V	0.100 X 0.170	AXIAL	281-0811-00
12pF	10%	100V	0.100 X 0.170	AXIAL	281-0904-00
15pF	10%	100V	0.100 X 0.170	AXIAL	281-0797-00
22pF	10%	100V	0.100 X 0.170	AXIAL	281-0759-00
27pF	5%	100V	0.100 X 0.170	AXIAL	281-0761-00
33pF	5%	50V	0.100 X 0.170	AXIAL	281-0819-00
39pF	5%	100V	0.100 X 0.170	AXIAL	281-0936-00
47pF	10%	100V	0.100 X 0.170	AXIAL	281-0763-00
51pF	5%	100V	0.100 X 0.170	AXIAL	281-0777-00
68pF	10%	100V	0.100 X 0.170	AXIAL	281-0785-00
82pF	5%	100V	0.100 X 0.170	AXIAL	281-0816-00
91pF	5%	100V	0.100 X 0.170	AXIAL	281-0872-00
100pF	10%	100V	0.100 X 0.170	AXIAL	281-0814-00
120pF	5%	100V	0.100 X 0.170	AXIAL	281-0776-00
150pF	10%	100V	0.100 X 0.170	AXIAL	281-0786-00
180pF	5%	100V	0.100 X 0.170	AXIAL	281-0851-00
240pF	5%	100V	0.100 X 0.170	AXIAL	281-0863-00
270pF	10%	100V	0.100 X 0.170	AXIAL	281-0791-00
330pF	20%	100V	0.100 X 0.170	AXIAL	281-0767-00
430pF	5%	100V	0.100 X 0.170	AXIAL	281-0864-00
470pF	10%	100V	0.100 X 0.170	AXIAL	281-0788-00
680pF	10%	50V	0.100 X 0.170	AXIAL	281-0820-00
820pF	5%	50V	0.100 X 0.170	AXIAL	281-0850-00
1000pF	10%	100V	0.100 X 0.170	AXIAL	281-0812-00
1800pF	10%	100V	0.100 X 0.170	AXIAL	281-0852-00
2200pF	10%	100V	0.100 X 0.170	AXIAL	281-0826-00
4700pF	10%	100V	0.100 X 0.170	AXIAL	281-0772-00
0.01µF	10%	100V	0.100 X 0.170	AXIAL	281-0773-00
0.022µF	20%	50V	0.100 X 0.170	AXIAL	281-0909-00
0.027µF	20%	50V	0.100 X 0.260	AXIAL	281-0815-00
0.047µF	20%	50V	0.100 X 0.170	AXIAL	281-0813-00

(Ceramic Capacitors continued on page 80)

Through-Hole Components: Capacitors

Al Lavalle, 627-6893, allavalle@tekig5.PEN.TEK.COM

New adds to Rev 7.0 are shaded in gray.

Ceramic Capacitors (cont.) – Supplier: AVX

Value	Tolerance	Voltage	Size	Package	Tek P/N
0.1 μ F	20%	50V	0.100 X 0.170	AXIAL	281-0775-00
0.22 μ F	20%	50V	0.170 X 0.120	AXIAL	281-0925-01
0.47 μ F	20%	50V	0.150 X 0.290	AXIAL	281-0563-00

Aluminum Capacitors – Supplier: UCC

Value	Tolerance	Voltage	Size	Package	Tek P/N
1 μ F	20%	50V	5 X 11 MM	RADIAL	290-0778-00
4.7 μ F	20%	100V	6 X 11MM	RADIAL	290-1144-00
10 μ F	20%	50V	5 X 11MM	RADIAL	290-0974-01
33 μ F	20%	35V	6 X 11MM	RADIAL	290-0920-01
47 μ F	+50-20%	25V	6 X 11MM	RADIAL	290-0943-00
100 μ F	20%	25VDC	8 X 11MM	RADIAL	290-0973-01
220 μ F	+50-20%	25WVDC	10 X 12MM	RADIAL	290-0963-00
470 μ F	+50-20%	35V	10 X 20MM	RADIAL	290-0919-00
1000 μ F	20%	50V	16 X 25MM	RADIAL	290-0922-00
2200 μ F	+50-20%	35WVDC	18 X 35MM	RADIAL	290-0916-00

Plastic Capacitors – Supplier: WIMA, ASC

Value	Tolerance	Volt.	Dielectric	Size	Package	Tek P/N
220pF	5%	100V	POLYESTER	7.2 X 7MM	RADIAL	285-1342-00
1000pF	5%	100V	POLYPROPYLENE	0.220 X 0.688	AXIAL	285-1419-00
2200pF	5%	100V	POLYESTER	0.296 X 0.335	RADIAL	285-1345-00
0.0047 μ F	5%	100V	POLYESTER	0.200 X 0.594	AXIAL	285-0643-00
0.01 μ F	5%	100V	POLYESTER	0.187 X 0.594	AXIAL	285-0598-00
0.01 μ F	10%	63V	POLYESTER	7.2 X .7MM	RADIAL	285-1340-00
0.022 μ F	10%	63V	POLYESTER	7.2 X 7MM	RADIAL	285-1339-00
0.1 μ F	20%	63V	POLYESTER	0.394 X 0.098	RADIAL	285-1378-01
0.22 μ F	10%	63V	POLYESTER	7.2 X 8.5MM	RADIAL	285-1348-00
0.47 μ F	10%	63V	POLYESTER	7.2 X 10MM	RADIAL	285-1301-00

Tantalum Capacitors – Supplier: Kemet

Value	Tolerance	Voltage	Dielectric	Size	Package	Tek P/N
1 μ F	10%	35V	TANT OXIDE	0.151 X 0.317	AXIAL	290-0183-00
2.7 μ F	10%	20V	TANT OXIDE	0.110 X 0.290	AXIAL	290-0808-00
3.3 μ F	10%	15V	TANT OXIDE	0.151 X 0.317	AXIAL	290-0246-00

Through-Hole Components: Inductors, Trimmer Potentiometers

New adds to Rev 7.0 are shaded in gray.

Inductors, Fixed – Jim Williamson, 627-2552, jimwi@tekig5.pen.tek.com

Induct	Tol	Tek P/N	Idc	Q	Shape	Supplier	Supplier P/N
1UH		108-1289-00	30 A		Ferrite	ZMAN MAGNETICS INC	120-1289-00
5.6UH	10%	108-1450-00	500 mA	45	Axial	TDK ELECTRONICS CORP	SP0305-5R6K
10UH	10%	108-1263-00	2.1A	70	Radial	TDK ELECTRONICS CORP	TSL0707-100K1R9
22UH	10%	108-1352-00	285 mA	50	Axial	TDK ELECTRONICS CORP	SPT0305-220K-2
33UH	10%	108-1319-00	1.8A		Radial	TDK ELECTRONICS CORP	TSL1110-330K 1R8
50UH		108-0526-00			Toroid	ZMAN MAGNETICS INC	108-0526-00
50UH	10%	108-0958-00	3A		Radial	ZMAN MAGNETICS INC	108-0958-00
65UH		108-0911-00			Toroid	ZMAN MAGNETICS INC	108-0911-00
82UH	10%	108-1351-00	175 mA	60	Axial	TDK ELECTRONICS CORP	SPT0305-820K-2
100UH	10%	108-1262-00	750mA	30	Radial	TDK ELECTRONICS CORP	TSL0807-101KR75
1 MH	10%	108-1267-01			Pot core	COILCRAFT INC	J8658-A

Trimmer Potentiometers, Top Adjust – Supplier: Bourns, Tocos Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

Value	Tolerance	Power	Size	Orientation	Tek P/N
10 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2223-00
20 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2224-00
50 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2226-00
100 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2227-00
200 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2228-00
500 OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2230-00
1K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2231-00
2K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2232-00
5K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2234-00
10K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2235-00
20K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2236-00
50K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2238-00
100K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2239-00
200K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2240-00
500K OHM	20%	0.5W	0.197 SQ	TOP ADJUST	311-2242-00

Through-Hole Components: Trimmer Potentiometers

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Trimmer Potentiometers, Side Adjust – Supplier: Bourns, Tocos

Value	Tolerance	Power	Size	Orientation	Tek Part Number
10 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2280-00
20 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2279-00
50 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2277-00
100 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2276-00
200 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2275-00
500 OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2257-00
1K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2258-00
2K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2273-00
5K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2271-00
10K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2270-00
20K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2269-00
50K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2267-00
100K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2266-00
200K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2265-00
500K OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2263-00
1M OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2262-00
2M OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2261-00
5M OHM	20%	0.5W	0.197 SQ	SIDE ADJUST	311-2259-00



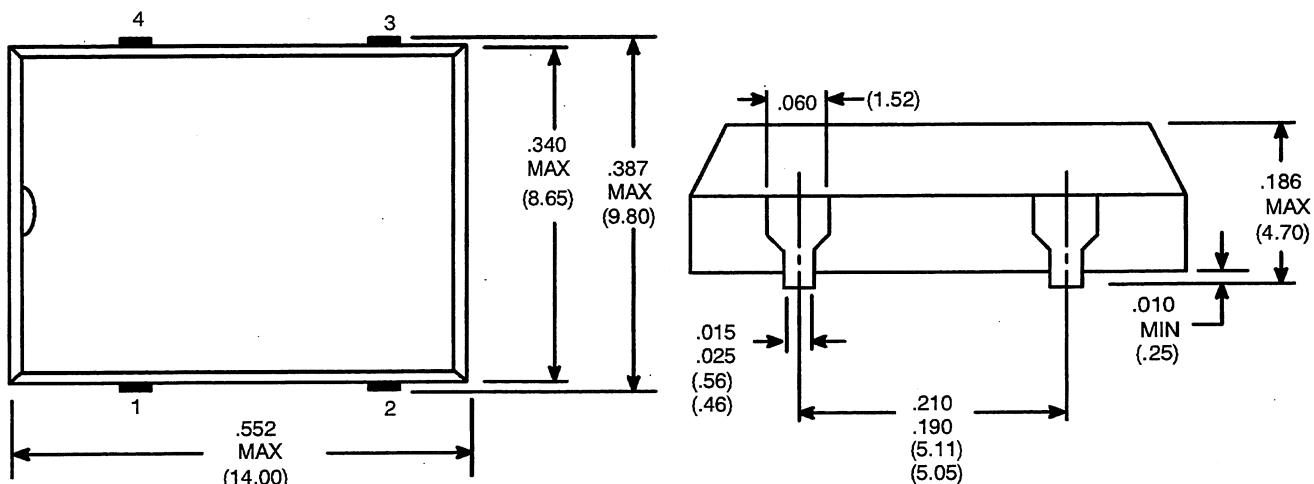
Electro-Mechanical Components: Crystal Oscillators

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Surface Mount Crystal Oscillators

Frequency	Tolerance	Output	Other Features	Tek Part Number
3.6864 MHZ	100 PPM	HCMOS		158-5020-00
6 MHZ	100 PPM	TTL		158-5024-00
10 MHZ	100 PPM	TTL		158-5005-00
14.7456 MHZ	100 PPM	TTL		158-5016-00
20 MHZ	100 PPM	TTL		158-5025-00
25 MHZ	100 PPM	SMD		158-5032-00
29.5 MHZ	100 PPM	CMOS	WITH OUTPUT ENABLE	158-5044-00
32 MHZ	100 PPM	HCMOS		158-5021-01
40 MHZ	100 PPM	CMOS	WITH OUTPUT ENABLE	158-5022-01
48 MHZ	100 PPM	TTL		158-5014-00
50 MHZ	100 PPM	CMOS		158-5029-01



PIN CONNECTIONS – J-LEAD CONFIGURATION

- PIN 1 N/C or OE
- PIN 2 GROUND
- PIN 3 OUTPUT
- PIN 4 +5V DC

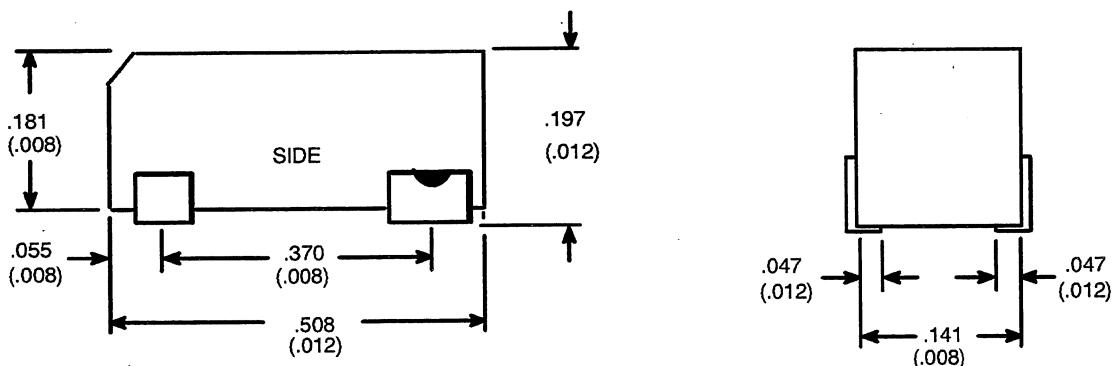
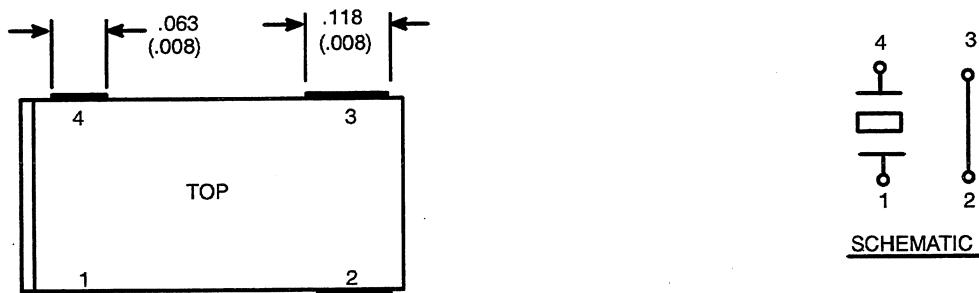
Electro-Mechanical Components: Surface Mount Crystals

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Surface Mount Crystals

Frequency	Tolerance	Mode	ESR	Load Cap	Tek Part Number
3.579545 MHZ	100 PPM	SERIES	200 OHMS		158-5018-00
3.579545 MHZ	20 PPM	PARALLEL	200 OHMS	20 PF	158-5042-00
3.6364 MHZ	100 PPM	PARALLEL	200 OHMS	20 PF	158-5017-00
4.433619 MHZ	20 PPM	PARALLEL	150 OHMS	20 PF	158-5043-00
12.0 MHZ	100 PPM	PARALLEL	60 OHMS	20 PF	158-5028-00
12.288 MHZ	100 PPM	PARALLEL	75 OHMS	20 PF	158-5011-00
14.31818 MHZ	20 PPM	PARALLEL	50 OHMS	20 PF	158-5041-00
16.00 MHZ	100 PPM	PARALLEL	50 OHMS	20 PF	158-5010-00
17.73447 MHZ	20 PPM	PARALLEL	50 OHMS	20 PF	158-5030-00
20.000 MHZ	50 PPM	SERIES	35 OHMS		158-5027-00



Electro-Mechanical Components: Through-Hole Crystal Oscillators

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Through-Hole Crystal Oscillators

Frequency	Tolerance	Output	Other Features	Tek Part Number
3.6864 MHZ	100 PPM	TTL		119-2042-00
6.0 MHZ	100 PPM	TTL		119-1828-00
8.0 MHZ	100 PPM	HCMOS		158-0391-00
8.192MHZ	100 PPM	TTL		158-0426-00
10.0 MHZ	25 PPM	TTL		119-3560-00
16 MHZ	100 PPM	TTL		119-1408-00
18.432 MHZ	100 PPM	HCMOS		119-4072-00
19.6608 MHZ	100 PPM	TTL		119-1502-00
20.0 MHZ	500 PPM	TTL		119-1413-00
23 MHZ	500 PPM	TTL		119-2340-00
24.576MHZ	100 PPM	HCMOS		158-1001-00
25.0 MHZ	100 PPM	TTL/CMOS	4 PIN MINI DIP	119-4032-00
27.5 MHZ	100 PPM	TTL		119-4199-00
30 MHZ	100 PPM	TTL		119-1547-00
32 MHZ	100 PPM	TTL/CMOS	4 PIN MINI DIP	119-4033-00
33.333 MHZ	50 PPM	TTL		119-2624-00
40.0 MHZ	100 PPM	TTL		119-1460-00
50.0 MHZ	100 PPM	TTL		119-2521-00
60.606 MHZ	100 PPM	TTL	ENABLE/DISABLE MINI DIP	158-0418-00
64.00 MHZ	100 PPM	TTL		119-3467-00
75.723MHZ	100 PPM	TTL		158-0406-00
77.133MHZ	100 PPM	TTL/CMOS	ENABLE/DISABLE	158-0412-00
80 MHZ	100 PPM	TTL		119-2623-00
100 MHZ	100 PPM	ECL		119-2511-00
100.0 MHZ	100 PPM	TTL		119-3565-00
100MHZ	100 PPM	ECL	COMPLEMENTARY OUTPUT	158-0344-00
106.44 MHZ	100 PPM	ECL	COMPLEMENTARY OUTPUT	119-4217-00
107.53 MHZ	500 PPM	ECL	COMPLEMENTARY OUTPUT	119-2513-00
110.575MHZ	100PPM	ECL	COMPLEMENTARY OUTPUT	158-0441-00
129.30 MHZ	100 PPM	ECL	COMPLEMENTARY OUTPUT	119-4228-00

Electro-Mechanical Components: Through-Hole Crystals, Armature Relays

New adds to Rev 7.0 are shaded in gray.

Through-Hole Crystals – Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

Frequency	Tolerance	Mode	Load Cap	ESR	Package	Tek Part Number
32.768KHZ	20 PPM	PARALLEL			N38	158-0333-00
1.8432MHZ	100 PPM	PARALLEL	.7PF	400 OHMS	HC-18/U	158-0290-00
2MHZ	100 PPM	SERIES			HC-32/U	158-0070-01
3.579545MHZ	30 PPM	PARALLEL	.16PF		HC-49U-A	158-0317-00
3.6864MHZ	700PPM	SERIES		120 OHMS	HC-18/U OR HC-49U	158-0271-00
4.0MHZ	50 PPM	PARALLEL	.20PF		HC49S	158-0389-00
6.000MHZ				60 OHMS		158-0345-00
8.192MHZ	50PPM	PARALLEL	.20PF	40 OHMS	HC49U	158-0443-00
8.83852MHZ	50 PPM	PARALLEL	.32PF			158-0219-00
9.6MHZ	50 PPM	SERIES	.32 PF		HC49 or HC18/U	158-0298-00
10.000MHZ	10 PPM	PARALLEL	.32PF		HC-43/U	158-0356-00
11.0592 MHZ	50 PPM	SERIES		30 OHMS	HC-49/U	158-0393-00
12 MHZ	50 PPM	SERIES			HC-49U W/3RD LEAD	158-0300-00
12.288 MHZ	30 PPM	PARALLEL		50 OHMS	HC-49S	158-0397-00
13.5MHZ	30PPM	PARALLEL	.25PF	25 OHMS	4PIN	158-0445-00
14.31818MHZ	30 PPM	PARALLEL	.30PF		HC-49/U	158-0308-00
14.318180MHZ	20 PPM	PARALLEL	.30 PF		4 PIN MINI DIP	158-0352-00
14.745600 MHZ	50 PPM	PARALLEL	.20 PF	25 OHMS	HC-18/U	158-0390-00
16.0MHZ	50 PPM	SERIES		50 OHMS	HC-49S	158-0297-00
17.734380 MHZ		PARALLEL	.32 PF		HC43/U	158-0327-00
17.734480MHZ	20 PPM	PARALLEL	.30 PF		4 PIN MINI DIP	158-0353-00
18.432MHZ	30 PPM				3 LEADED CAN	158-0351-00
20MHZ	50 PPM	SERIES		20 OHMS	HC49 W/3RD LEAD	158-0360-00
20MHz	100 PPM	PARALLEL	.32PF		HC-49/V W/3RD	158-0373-00
25MHz	20 PPM	SERIES				158-0326-00

Relays, Armature – Supplier: NEC, Aromat – Martin Baggs, 627-2534, martinb@tekig5.pen.tek.com

Form	Coil Voltage/ Resistance		Switching Rating			Size (inches)			Additional Information	Industry P/N	Tek P/N
	V DC	Ω	V DC	I	W	L	W	H			
2 C	4.5	145	220	1	30	.560	.370	.300	SMD	NEC, EB2-4.5T NU	148-5012-00
1 C	12	720	30	0.01	30	.795	.441	.382	TH 50 Ω or 75 Ω , HF Insert Loss .3dB at 900 MHz	Aromat, RK1E-DC12V	148-0173-01

(Relays, Armature continued on page 87)

Electro-Mechanical Components: Armature Relays, Fans, Power Supplies, EMI Suppression

New adds to Rev 7.0 are shaded in gray.

Relays, Armature (cont.) – Supplier: NEC, Aromat – *Martin Baggs, 627-2534, martinb@tekig5.pen.tek.com*

Form	Coil Voltage/ Resistance		Switching Rating			Size (inches)			Additional Information	Industry P/N	Tek P/N
2 C	5	178	110	1	30	.551	.354	.197		Aromat, TQ2E-5V NEC, EA2-SNU	148-0249-00
2 C	5	125	110	1	30	.551	.354	.197	Latching	Aromat, TQ2EH-L2-5 V	148-0246-00
2 C	5	312	110	1	30	.551	.354	.307		Aromat, TF2E-5V	148-0235-00
2 C	5	62.5	220	2	60	.787	.390	.386		Aromat, DS2E-M- DC5V	148-0148-00
2 C	5	139	220	2	60	.787	.390	.390	Latching	Aromat, DS2YE-L2-5 V	148-0255-00

Fans, Tubeaxial – Supplier: NMB – *Curt Bernal, 627-6103, curtb@tekig5.pen.tek.com*

CFM	Volts	Voltage Range		Current in mA		PD in Watts	Additional Information	Industry P/N	Tek P/N
		Min	Max						
100	12	6	13.8	500	6	2,800 RPM, 41 dBA, 5" lead, W/Conn	4715ML-012 P 540	4715ML-012 P 540	119-5003-00

Power Supplies – *Jim Williamson, 627-2552, jimwi@tekig5.pen.tek.com*

Power	Output	Input	Tek P/N	Shape	Supplier	Supplier P/N
1W	70VAC, 450Hz	5V, 95 mA	119-4585-00	32x21x1mm, ECB Mount		EBX-504B
35W	16V 2.2A	90-265VAC	119-4749-00	Table Top		SW103KA0012F02

EMI Suppression – *Jim Williamson, 627-2552, jimwi@tekig5.pen.tek.com*

Impedance @ 100MHz	Tol	Tek P/N	Idc	Shape	Supplier	Supplier P/N
52 OHM	25%	108-5084-00	400 mA	1210,BEAD	TDK ELECTRONICS CORP	HF70ACB322513T
100 OHM		276-0752-00		BEAD ON LEAD	TDK ELECTRONICS CORP	HF55BTL3.5X4.5R
120 OHM	25%	108-5082-00	300mA	1812,BEAD	TDK ELECTRONICS CORP	HF70ACB453215T
150 OHM		276-0848-00	3A	2220, SMD	TDK ELECTRONICS CORP	HF70ACC575018TL
26 OHMS	25%	108-5102-00	500mA	1206 SMD	TDK ELECTRONICS CORP	HF70ACB-321611
600 OHMS		276-5001-00	200mA	1206 SMD	TDK ELECTRONICS CORP	BLM32A06PT

Electro-Mechanical Components: RFI Line Filters, EMI Filters, Opto-Couplers

Martin Baggs, 627-2534, martinb@tekig5.pen.tek.com

New adds to Rev 7.0 are shaded in gray.

RFI Line Filters – Supplier: Shaffner

I (A)	Volts (V)	Freq. (Hz)	Insula. Res.	Leakage Current (line to ground)	Dielectric withstand	Insert loss at 1MHz	Notes	Supplier's P/N	Tek P/N
	250	45-440	100MΩ at 500V	2.5mA (275V, 60Hz)	2000V rms	55dB		FN328-1/01	119-3488-00
1	250	50-400		0.42mA (220V, 50Hz)	1800V	50dB	Right angle pc terminals	FN326-1/02	119-1946-00
6	250	50-400		0.42mA (220V, 50Hz)	2000V	45dB	Right angle pc terminals	FN326-6/02	119-4353-00

EMI Filters – Supplier: Murata

I (A)	Volts (V)	Imp.	Insula. Res.	Insert loss at 1MHz	Supplier's P/N	Tek P/N
10	50 DC	50Ω	100MΩ	40dB	BNX002-01	119-4451-00

Opto-Couplers Through-Hole – Supplier: Motorola, Hewlett Packard

Output Coll. I (mA)	V _{CCEO} (V)	Isolation Voltage	Switch Time On	Switch Time Off	Package	Notes	Supplier's P/N	Tek P/N
2 min	30	2500V min	2.8μs typical	4.5μs typical	6 pin DIP	General purpose DC I Gain: h _{FE} =250 @ V _{CCE} =5V I _C =500μA	4N26	156-0907-00
50 max		2500 V ac min	10ns (rise time)	30ns (fall time)	8 pin DIP	High speed TTL logic compatible. Data rate=10MBd NRZ Prop. delay=75ns max CMR=5000V/μs min @ V _{CIV} =50V Input I=5-15mA	HCPL-2601	156-1522-00

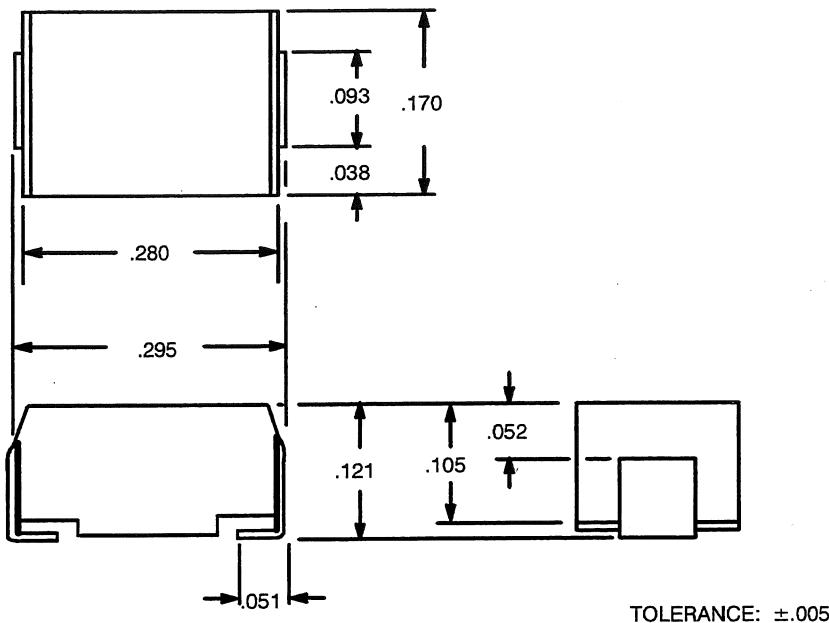
Electro-Mechanical Components: Fuses

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

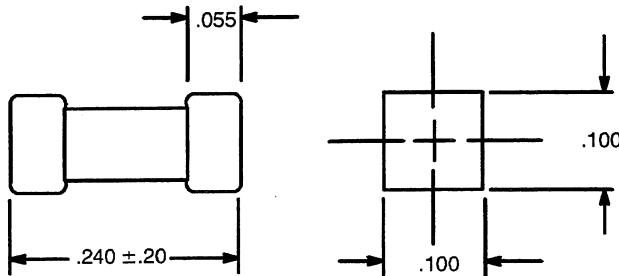
Fuses – Suppliers: Bussman, Littlefuse

Amp Rating	Voltage Rating	200% Load Blow Time	Approvals	Safety Controlled	Tek P/N
0.5	125	60 SEC MIN	UL REC, CSA CERT		159-5007-00
1.0	125	1 SEC MAX	UL REC, CSA CERT	Y	159-5005-00
1.0	125	60 SEC MIN	UL REC, CSA CERT	Y	159-5006-00
2.5	125	1 SEC MAX	UL REC, CSA CERT	Y	159-5000-00



Fuses – Supplier: Littlefuse

Amp Rating	Voltage Rating	200% Load Blow Time	Approvals	Safety Controlled	Tek P/N
1.5	125	5 SEC MAX	UL REC, CSA CERT	Y	159-5009-00
7	125	5 SEC MAX	UL REC, CSA CERT	Y	159-5010-00



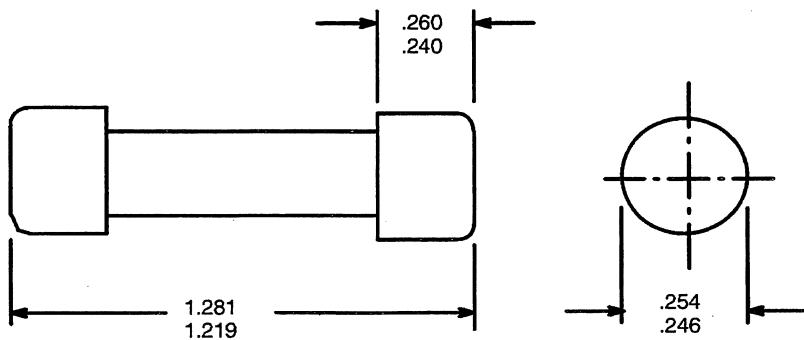
Electro-Mechanical Components: Fuses

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Fuses – Suppliers: Bussman, Littlefuse

Amp Rating	Voltage Rating	200% Load Blow Time	Approvals	Vendor P/N	Safety Controlled	Tek P/N
0.062A	250V	2 Sec Max	UL List, CSA Cert	AGC 1/16	Y	159-0024-00
0.15A	250V	25 Sec	UL List, CSA Cert	MDL 15/100	Y	159-0054-00
0.2A	250V	12 Sec Min	UL List, CSA Cert	MDL 2/10	Y	159-0044-00
0.25A	250V	5 Sec Max	UL List, CSA Cert	ABC-1/4	Y	159-0028-00
0.3A	250V	5 Sec Min	UL List, CSA Cert	MDL 3/10	Y	159-0029-00
0.4A	250V	17 Sec Max	UL List, CSA Cert	MDL 4/10	Y	159-0031-00
0.5A	250V	5 Sec Max	UL List, CSA Cert	AGC 1/2	Y	159-0025-00
0.5A	250V	20 Sec	UL List, CSA Cert	MDL 1/2	Y	159-0032-00
0.6A	250V	25 Sec Max	UL List, CSA Cert	MDL 6/10	Y	159-0043-00
0.75A	250V	5 Sec Max	UL List, CSA Cert	AGC 3/4	Y	159-0042-00
0.8A	250V	30 Sec	UL List, CSA Cert	MDL 8/10	Y	159-0018-00
1A	250V	15 Sec	UL List, CSA Cert	MDL 1	Y	159-0019-00
1A	250V	5 Sec Max	UL List, CSA Cert	AGC 1	Y	159-0022-00
1.25A	250V	20 Sec	UL List, CSA Cert	MSL-1 1/4	Y	159-0041-00
1.5	250V	5 Sec Max	UL List, CSA Cert	31201.5	Y	159-0016-00
2A	250V	5 Sec Max	UL List, CSA Cert	AGC 2	Y	159-0021-00
2A	250V	20 Sec	UL List, CSA Cert	MSX 2	Y	159-0023-00
3A	250V	10 Sec	UL List, CSA Cert	MSL-3	Y	159-0005-00
3A	250V	5 Sec Max	UL List, CSA Cert	312 003	Y	159-0015-00
4A	250V	5 Sec Max	UL List, CSA Cert	AGC 4	Y	159-0017-00
6A	250V	5 Sec Max	UL List, CSA Cert	312 006	Y	159-0013-00
8A	250V	15 Sec Max	UL List, CSA Cert	ABC 8	Y	159-0046-00
10A	250V	15 Sec	UL List, CSA Cert	ABC 10	Y	159-0047-00
12A	250V	15 Sec Max	UL List, CSA Cert	ABC 12	Y	159-0088-00



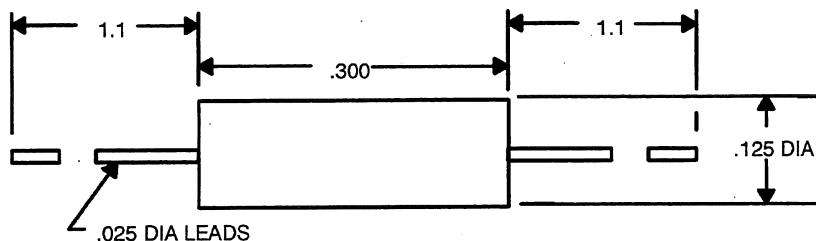
Electro-Mechanical Components: Cartridge Fuses

Gary Johnson, 627-1985, Gary.M.Johnson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Fuses – Suppliers: Bussman, Littlefuse

Amp Rating	Voltage Rating	200% Load Blow Time	Approvals	Vendor P/N	Safety Controlled	Tek P/N
0.062	125	5 Sec Max	UL Rec, CSA Cert	251.062		159-0148-00
0.25	125	5 Sec Max	UL Rec, CSA Cert	MCR-1/4	Y	159-0253-00
0.5	125	5 Sec Max	UL Rec, CSA Cert	MCR-1/2		159-0221-00
0.75	125	6 Sec Max	UL Rec, CSA Cert	MCR-3/4		159-0235-00
1	125	5 Sec Max	UL Rec, CSA Cert	MCR-1	Y	159-0245-00
1.5	125	5 Sec Max	UL Rec, CSA Cert	MCR-1 1/2	Y	159-0159-00
2	125	5 Sec Max	UL Rec, CSA Cert	MCR-2	Y	159-0208-00
3	125	5 Sec Max	UL Rec, CSA Cert	A3	Y	159-0220-00
3.5	125	5 Sec Max	UL Rec, CSA Cert	MCR-3 1/2	Y	159-0246-00
4	125	5 Sec Max	UL Rec, CSA Cert	251004	Y	159-0363-00
5	125	5 Sec Max	UL Rec, CSA Cert	MCR-5	Y	159-0059-00
10	125	5 Sec Max	UL Rec, CSA Cert	MCR-10	Y	159-0193-00



Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

I/O Cable Assemblies, External – Supplier: Contex, Mueller, MEC, Berg

Type	Length	Termination End 1	Termination End 2	# of Conductors, AWG	Special Features	Tek P/N
RS-232	180.0 INCH	DB9 FEMALE	DB25 MALE	9,28 AWG	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-1241-00
RS-232	120.0 INCH	DB25 MALE	DB25 FEMALE	15,24 AWG	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-0911-00
RS-232	2 METER	DB25 MALE	DB25 FEMALE	9,24 AWG	NULL MODEM, DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	174-2561-00
GPIB	2 METER	24 POS RIBBON FEEDTHRU	24 POS RIBBON FEEDTHRU	24, 12 TW PR	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-0991-00
PRINTER IBM	3 METER	DB25 MALE	36 POS RIBBON MALE	25, 28AWG	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-1214-00
SCSI 2	24 INCH	50 POSITION, MALE, MINI D TYPE	50 POSITION, MALE, MINI D TYPE	25 TW PR	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-1460-00
SCSI 3	12 INCH	68 POSITION, MALE, MINI D TYPE	68 POSITION, MALE, MINI D TYPE	34 TW PR	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID	012-1456-00
R, G, B	120.0 INCH	3, MALE BNC'S	3, MALE BNC'S	3, 75 OHM COAX	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID FOR INDIVIDUAL COAX	012-1189-01
R, G, B	36 INCH	DB9 MALE	3, MALE BNC'S	3, 75 OHM COAX	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID FOR INDIVIDUAL COAX	012-1288-01
VGA	36 INCH	HD15 MALE	3, MALE BNC'S	3, 75 OHM COAX	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID FOR INDIVIDUAL COAX	012-1442-00
VGA	30 INCH	HD15 MALE	HD15 MALE	3, 75 OHM COAX	DUAL SHIELD ALUMINIZED POLYESTER W/OVERALL BRAID FOR INDIVIDUAL COAX	012-1457-00
PROBE	1 METER	4MM SHIELDED JACK	4MM SHIELDED PLUG	20 AWG	RED, BLACK, YELLOW, BLACK PLUNGER,(2) ALLIGATOR CLIPS	012-1447-00
PROBE	1 METER	4MM SHIELDED JACK	4MM SHIELDED PLUG	20 AWG	RED, BLACK, YELLOW, BLACK PLUG ON PROBE,,PLUNGER	012-1449-00

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Termination – Supplier – AMP

Style	Termination	Type	Special Features	Tek P/N
SCSI 2	50 POSITION, MALE MINI-D TYPE	Single Ended	Shielded	011-0165-00

0.1 Center, Internal Cable Assemblies – Supplier – 3M, Unitrek

Type	Length	Termination End 1	Termination End 2	# of Conductors, AWG	Special Features	Tek P/N
JUMPER 0.1 CTR	6.0 INCH	2 X 13, .01 CTR RCPT,CTR PLZ	2 X 13, .01 CTR, PCB	26,28 AWG	BOARD RETENTION	174-1728-00
I/O ASSY	2.5 INCH	37 POS, DSUB, FEMALE, DB37F	2 X 20, .01 CTR, PCB	37, 28 AWG	DSUB 4-40 THD INSERTS	174-3041-00

0.079 Center (2 MM), Internal Cable Assemblies – Supplier: 3M

Type	Length	Termination End 1	Termination End 2	# of Conductors, AWG	Special Features	Tek P/N
JUMPER 0.079 CTR	1.5 INCH	2 X 5, 2MM RCPT	2 X 5, 2MM, PCB	10,28 AWG	(NEWER TECHNOLOGY)	174-3046-00
JUMPER 0.079 CTR	1.5 INCH	2 X 25, 2MM RCPT	2 X 25, 2MM, PCB	50,28 AWG	(NEWER TECHNOLOGY)	174-3083-00
JUMPER 0.079 CTR	1.5 INCH	2 X 13, 2MM RCPT	2 X 13, 2MM, PCB	26,28 AWG	(NEWER TECHNOLOGY)	174-3051-00

0.05 Center, Internal Cable Assemblies – Supplier: 3M

Type	Length	Termination End 1	Termination End 2	# of Conductors, AWG	Special Features	Tek P/N
JUMPER 0.05 CTR	9.0 INCH	100 POS MINI RIBBON, RCPT, 0.05 CTR	100 POS MINI RIBBON, RCPT, 0.05 CTR	100,30 AWG	WITH PULL TABS	174-3039-00
JUMPER 0.05 CTR	3.3 INCH	100 POS MINI RIBBON, RCPT, 0.05 CTR	100 POS MINI RIBBON, RCPT, 0.05 CTR	100,30 AWG	3, MINI RIBBON CONNECTORS 1.3 L X 1.0 L X 1.0 L	174-3040-00
JUMPER 0.05 CTR	2.0 INCH	100 POS MINI RIBBON, RCPT, 0.05 CTR	100 POS MINI RIBBON, RCPT, 0.05 CTR	100,30 AWG	WITH PULL TABS	174-3045-00
JUMPER 0.05 CTR	18.0 INCH	100 POS MINI RIBBON, RCPT, 0.05 CTR	100 POS MINI RIBBON, RCPT, 0.05 CTR	100,30 AWG	WITH PULL TABS	174-3088-00

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Flat Flex Jumpers – Supplier: Parlex, AMP

# of Conductors	Length	Centerline	Plating	Termination End 1	Termination End 2	Thickness or Features	Tek P/N
16	1.5 INCH	1.25 MM	Tin Plated Copper	Stripped	Stripped	0.012 INCH w/Backing	174-2611-00
26	15.0 INCH	1.0 MM	Tin Plated Copper	Stripped	Stripped	0.012 INCH w/Backing	174-3135-00
# of Conductors	Length	Termination End 1	Termination End 2	Centerline	Plating	Thickness or Features	Tek P/N
30	2.2 INCH	Stripped	Stripped	1.0 MM	Tin Plated Copper	0.012 INCH w/Backing	174-3049-00
3	2.5 INCH	Right Angle Sldr Tabs	Right Angle Sldr Tabs	0.1 INCH	Tin Pl Copper	Opposing ends	174-3140-00
28	2.5 INCH	0.025 Square Pins, 0.225 MLG	0.025 Square Pins, 0.225 MLG	0.1 INCH	GOLD		174-3036-00

0.156 Center, Internal Cable Assemblies, Power – Supplier: Unitrek

Type	Length	Termination End 1	Termination End 2	# of Conductors, AWG	Special Features	Tek P/N
POWER	13.0 INCH	1 X 6, 0.156 CTR LATCHING	2 X 13, 0.1 CTR, PCB	6,18 AWG		174-3014-00

Power Cords, Straight IEC 320 Receptacles – Supplier: Electri-Cord

Type	Length	End 1	End 2	Amperage/Voltage	# of Cond AWG	Special Features	Tek P/N
US	98.0 INCH	NEMA 5-15P	IEC 320 RECPT	10A/250V	3, 18AWG	North American	161-0066-00
US Jumper	98.0 INCH	IEC 320 MALE	IEC 320 RECPT	10A/250V	3, 18AWG		161-0126-00
US Jumper	39.0 INCH	IEC 320 MALE	IEC 320 RECPT	10A/250V	3, 18AWG	Harmonized	161-0125-00
EUROPEAN	2.5 METER	EUROPEAN	IEC 320 RECPT	10A/250V	3, 1mm SQ	A1	161-0066-09
UK	2.5 METER	UNITED KINGDOM	IEC 320 RECPT	10A/250V	3, 1mm SQ	A2	161-0066-10
AUSTRALIA	2.5 METER	AUSTRALIA	IEC 320 RECPT	10A/250V	3, 1mm SQ	A3	161-0066-11
US	98.0 INCH	NEMA 6-15P	IEC 320 RECPT	10A/250V	3, 18AWG	North American A4	161-0066-12

(Power Cords continued on page 95)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Power Cords, Right Angle IEC 320 Receptacles (cont.) – Supplier: Electri-Cord

Type	Length	End 1	End 2	Amperage/ Voltage	# of Cond AWG	Special Features	Tek P/N
SWISS	2.5 METER	SWISS	IEC 320 RECPT	10A/250V	3, 1mm SQ	A5	161-0154-00
US	98.0 INCH	NEMA 5-15P	IEC 320 RECPT	10A/250V	3, 18AWG	North American	161-0104-00
EUROPEAN	2.5 METER	EUROPEAN	IEC 320 RECPT	10A/250V	3, 1mm SQ	A1	161-0104-06
UK	2.5 METER	UNITED KINGDOM	IEC 320 RECPT	10A/250V	3, 1mm SQ	A2	161-0104-07
AUSTRALIA	2.5 METER	AUSTRALIA	IEC 320 RECPT	10A/250V	3, 1mm SQ	A3	161-0104-05
US	98.0 INCH	NEMA 6-15P	IEC 320 RECPT	10A/250V	3, 18AWG	North American A4	161-0104-08
SWISS	2.5 METER	SWISS	IEC 320 RECPT	10A/250V	3, 1mm SQ	A5	161-0167-00

Shunts, Jumpers – Supplier: Berg

# of Contacts	Centerline Inch	Config	Overall Height	Plating	Special Features	Tek P/N
2	0.1	Straight	0.2	Gold	Low Profile	131-3199-00
2	0.1	Straight	0.385	Gold	Specified to 100 mating cycles	131-0993-00

Shunts, Jumper, Tape & Reel – Supplier: Squire

Jumper, Tape & Reel	Tek P/N
22 awg, 2.125 Inch Long, Tinned Copper, Bus Wire	131-1817-01

Connectors, Wire to Board Type – Supplier: Molex, AMP

1MM AND 1.25 MM SPACED FLAT FLEX		THROUGH-HOLE			FOR 0.012 THICK FLAT FLEX CABLE	
# of Contacts	Centerline (MM) Inch	Config	Tail Length	Plating	Special Features	Tek P/N
15	(1.0 MM) 0.039	Right Angle	0.126	Tin	ZIF	131-5658-00
26	(1.0 MM) 0.039	Straight	0.126	Tin	ZIF	131-5501-00
30	(1.0 MM) 0.039	Straight	0.126	Tin	ZIF	131-5564-00
30	(1.0 MM) 0.039	Right Angle	0.126	Tin	ZIF	131-5592-00
16	(1.25 MM) 0.049	Straight	0.138	Tin	ZIF	131-5333-00
20	(1.25 MM) 0.049	Straight	0.138	Tin	ZIF	131-4742-00

(Connectors, Wire to Board continued on page 96)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Wire to Board Type (cont.) – Supplier: 3M

TRANSITION CONNECTORS THROUGH-HOLE ACCOMMODATE 0.05 CENTER RIBBON CABLE 26-30 AWG						
# of Contacts	Centerline (MM) Inch	Config	Height	Plating	Special Features	Tek P/N
16	0.1 x 0.1 inch	Right Angle	0.112	Tin	2 x 8 Grid	131-3357-00

Connectors, Wire to Board Type – Supplier: Molex

1MM AND 1.25 MM SPACED FLAT FLEX SURFACE MOUNT FOR 0.012 THICK FLAT FLEX CABLE						
# of Contacts	Centerline (MM) Inch	Config	Height	Plating	Special Features	Tek P/N
5	(1.0 MM) 0.039	Right Angle	0.101	Tin	ZIF	131-5751-00

Connectors, Receptacles, Board to Board Type – Supplier: AMP, 3M, Berg

RECEPTACLES		THROUGH-HOLE					0.1 CENTER LINE	
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N	
1 x 3	0.100	Straight	0.235	0.130	Gold	Bottom Entry (Dual Entry)	131-5539-00	
1 x 9	0.100	Straight	0.150	0.125	Gold	Top Entry	131-5289-00	
1 x 11	0.100	Straight	0.150	0.125	Gold	Top Entry	131-5291-00	
2 x 5	0.100	Straight	0.325	0.125	Gold	Top Entry	131-5129-00	
2 x 6	0.100	Straight	0.235	0.130	Gold	Bottom Entry (Dual Entry)	131-5095-00	
2 x 7	0.100	Straight	0.235	0.130	Gold	Bottom Entry (Dual Entry)	131-5542-01	
2 x 10	0.100	Straight	0.340	0.120	Gold	Top Entry	131-2515-00	
2 x 12	0.100	Straight	0.235	0.130	Gold	Bottom Entry (Dual Entry)	131-4389-00	
2 x 17	0.100	Straight	0.340	0.125	Gold	Top Entry	131-5169-00	
2 x 20	0.100	Straight	0.325	0.125	Gold	Top Entry	131-5132-00	
2 x 20	0.100	Straight	0.235	0.130	Gold	Dual Entry	131-5599-00	
2 x 25	0.100	Straight	0.325	0.125	Gold	Top Entry	131-4864-00	
2 x 25	0.100	Straight	0.235	0.130	Gold	Bottom Entry (Dual Entry)	131-5321-00	

(Connectors, Receptacles continued on page 97)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Receptacles, Board to Board Type (cont.) – Supplier: AMP, 3M, Berg

RECEPTACLES – DUAL ROW, STRAIGHT			SURFACE MOUNT			0.050 CENTER LINE	
# of Contacts	Centerline Inch	Config.	Overall height	Tail Length	Plating	Special Features	Tek P/N
2 X 25	0.050	Straight	0.187		Gold	Board Retention, plz	131-5748-00

Connectors, Receptacles, Board to Board Type – Supplier: JST

RECEPTACLES – DUAL ROW, RIGHT ANGLE			THROUGH-HOLE			0.098 CENTER LINE	
# of Contacts	Centerline Inch	Config.	Overall height	Tail Length	Plating	Special Features	Tek P/N
2 X 12	0.098	Right Angle	0.238	0.115	Gold	Side Entry, W/Post Stop	131-3071-00

RECEPTACLES – SINGLE ROW, RIGHT ANGLE			THROUGH-HOLE			0.098 CENTER LINE	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 3	0.098	Right Angle	0.102	0.138	TIN	Latching	131-5464-00

Connectors, Headers, Through-Hole – Supplier: AMP, 3M, Berg

HEADER – SINGLE ROW, STRAIGHT			THROUGH-HOLE		SHROUDED & NON SHROUDED		0.1 CENTERLINE
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1		Straight	0.343 MLG	0.122	Gold	Swedge Fit Machine Insertable	131-0589-00
1		Straight	0.248 MLG	0.137	Gold	Swedge Fit Machine Insertable	131-0608-00
1 x 2	0.100	Straight	0.235 MLG	0.110	Gold		131-4917-00
1 x 2	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-4963-00
1 x 2	0.100	Straight	0.410	0.140	Tin	Shrouded, Center Plz & Dual end Plz, Bd Retention	131-5419-00
1 x 3	0.100	Straight	0.230 MLG	0.120	Gold	Bd Retention	131-4530-00
1 x 3	0.100	Straight	0.230 MLG	0.120	Gold	Bd Retention	131-4530-00
1 x 3	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-5457-00
1 x 3	0.100	Straight	0.535	0.130	Tin	Shrouded, Center Plz, Latching, Bd Retention	131-5258-00

(Connectors, Headers continued on page 98)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Headers (cont.) – Supplier: AMP, 3M, Berg

HEADER – SINGLE ROW, STRAIGHT		THROUGH-HOLE		SHROUDED & NON SHROUDED		0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 4	0.100	Straight	0.235 MLG	0.110	Gold		131-2919-01
1 x 4	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-5257-00
1 x 5	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-5157-00
1 x 7	0.100	Straight	0.535	0.130	Tin	Shrouded, Center Plz, Latching, Bd Retention	131-5345-00
1 x 9	0.100	Straight	0.235 MLG	0.120	Gold	Bd Retention	131-5719-00

Connectors, Headers– Supplier: AMP, 3M, Berg

HEADER – SINGLE ROW, STRAIGHT		THROUGH-HOLE		0.098 CENTERLINE			
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 2	0.098	Straight	0.295 MLG	0.140	Tin	Friction Lock	131-3270-00
1 x 3	0.098	Straight	0.295 MLG	0.140	Tin	Friction Lock	131-4504-00
1 x 6	0.098	Straight	0.295 MLG	0.140	Tin	Friction Lock	131-3272-00

Connectors, Headers– Supplier: AMP, 3M, Berg

HEADER – SINGLE ROW, STRAIGHT		THROUGH-HOLE		0.1 CENTERLINE			
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 4	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-5452-00
1 x 5	0.100	Straight	0.318 MLG	0.140	Gold		131-3730-00
1 x 5	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention	131-5459-00
1 x 6	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latching, Bd Retention High Temp Housing	131-5472-00

(Connectors, Headers continued on page 99)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Headers- Supplier: AMP, 3M, Berg

HEADER – SINGLE ROW, STRAIGHT		THROUGH-HOLE			0.1 CENTERLINE		
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 6	0.100	Straight	0.230 MLG	0.110	Gold		131-4750-00
1 x 8	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latchung, Bd Retention High Temp Housing	131-5473-00
1 x 9	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latchung, Bd Retention	131-5460-00
1 x 10	0.100	Straight	0.235 MLG	0.112	Gold		131-3392-00
1 x 10	0.100	Straight	0.535	0.130	Gold	Shrouded, Center Plz, Latchung, Bd Retention High Temp Housing	131-5474-00
1 x 10	0.100	Straight	0.535	0.130	Tin	Shrouded, Center Plz, Latchung, Bd Retention High Temp Housing	131-5158-00
1 x 16	0.100	Straight	0.235 MLG	0.112	Gold		131-4751-00
1 x 36	0.100	Straight	0.230 MLG	0.112	Gold		131-1857-00

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADER – RIGHT ANGLE – SINGLE ROW		THROUGH-HOLE			0.1 CENTERLINE		
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 2	0.100	Right Angle	0.300	0.130	Gold	Shrouded, Center Plz, Latchung, Bd Retention	131-4799-00
1 x 2	0.200	Right Angle	0.300	0.130	Gold	Shrouded, Center Plz, Latchung, Bd Retention Pin 2 Removed (1 x 3)	131-5280-00
1 x 2	0.100	Right Angle	0.235 MLG	0.112	Gold		131-3766-00
1 x 3	0.100	Right Angle	0.235 MLG	0.112	Gold		131-5686-00
1 x 4	0.100	Right Angle	0.318 MLG	0.110	Gold		131-2919-00
1 x 2	0.100	Right Angle	0.300	0.130	Tin	Shrouded, Center Plz, Latchung,Bd Retention	131-5247-00
1 x 5	0.100	Right Angle	0.235 MLG	0.110	Gold		131-4553-00

(Connectors, Headers continued on page 100)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADER – RIGHT ANGLE – SINGLE ROW			THROUGH-HOLE			0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 5	0.100	Right Angle	0.300	0.130	Tin	Shrouded, Center Plz, Latching,Bd Retention	131-5249-00
1 x 23	0.100	Right Angle	0.300	0.130	Tin	Shrouded, Center Plz, Latching,Bd Retention	131-5347-00

Connectors, Headers – Supplier: JST

HEADERS – SINGLE ROW – RIGHT ANGLE			THROUGH-HOLE			0.098 CENTER LINE	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 3	0.098	Straight	0.362	0.138	TIN	Latching	131-4900-00

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADERS – DOUBLE ROW – STRAIGHT			THROUGH-HOLE			0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 3	0.100	Straight	0.230 MLG	0.110	Gold	BD Retention	131-5243-00
2 x 4	0.100	Straight	0.230 MLG	0.110	Gold	BD Retention	131-5160-00
2 x 5	0.100	Straight	0.230 MLG	0.095	Gold		131-3178-00
2 x 5	0.100	Straight	0.230 MLG	0.110	Tin		131-5568-00
2 x 5	0.100	Straight	0.365	0.112	Gold	Shrouded, MIL PLZ	131-3520-00
2 x 7	0.100	Straight	0.235 MLG	0.112	Gold	Bd Retention	131-4420-00
2 x 7	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-4183-00
2 x 8	0.100	Straight	0.235 MLG	0.112	Gold		131-3908-00
2 x 8	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ Bd Retention	131-5242-00
2 x 10	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ Bd Retention	131-3360-01
2 x 10	0.100	Straight	0.235 MLG	0.112	Gold	Bd Retention	131-4421-00

(Connectors, Headers continued on page 101)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADERS (cont.) – DOUBLE ROW – STRAIGHT				THROUGH-HOLE		0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 12	0.100	Straight	0.235 MLG	0.110	Gold	Bd. Retention	131-4738-00
2 x 12	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-4114-00
2 x 13	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-3362-00
2 x 17	0.100	Straight	0.230 MLG	0.095	Gold	GXT	131-0091-00
2 x 17	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-3364-00
2 x 17	0.100	Straight	0.440	0.125	Gold	Shrouded, Dual Detent PLZ 0.318 MLG, 0.066 END	131-5170-00
2 x 20	0.100	IDC/ Ribbon	0.530	Open End	Gold	MIL PLZ Accom 26-30 AWG	131-5050-00
2 x 20	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-3323-00
2 x 25	0.100	Straight	0.230 MLG	0.100	Gold		131-2401-00
2 x 25	0.100	Straight	0.365	0.112	Gold	Shrouded, Center PLZ	131-3147-00
2 x 25	0.100	Straight	0.970	0.112	Gold	Shrouded, Center PLZ Short Latch	131-3825-00
2 x 30	0.100	Straight	0.235 MLG	0.110	Gold	Board Retention	131-4702-00
2 x 36	0.100	Straight	0.318 MLG	0.125	Gold		131-4247-00

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADER – DOUBLE ROW, STRAIGHT				THROUGH-HOLE		2 MM CENTERLINE	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 25	2 MM 0.079	Straight	0.130	0.118	Gold	Shrouded, Ctr Plz	131-5744-00

Connectors, Headers – Supplier: AMP, Berg

HEADERS – STRAIGHT, DOUBLE ROW				THROUGH-HOLE		0.050 X 0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 30	0.05 x 0.100	Straight	0.390	0.112	Gold	Shrouded, Center PLZ Latching	131-5248-00

(Connectors, Headers continued on page 102)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Headers (cont.) – Supplier: AMP, 3M, Berg

HEADER – DUAL ROW, STRAIGHT			SURFACE MOUNT			0.050 CENTER LINE	
# of Contacts	Centerline Inch	Config.	Overall height	Tail Length	Plating	Special Features	Tek P/N
2 X 50	0.050	Straight	0.390		Gold	Board Retention, plz	131-5749-00

Connectors, Headers – Supplier: AMP, 3M, Berg

HEADER – DUAL ROW, RIGHT ANGLE			THROUGH-HOLE			0.1 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
2 x 5	0.100	Right Angle	0.330	0.125	Gold	Shrouded, Center PLZ 0.15 end dim, Bd Retention	131-5343-00
2 x 5	0.100	Right Angle	0.330	0.112	Gold	Shrouded, MIL PLZ	131-3358-00
2 x 7	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ	131-3445-00
2 x 8	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ Short Latch	131-5354-00
2 x 8	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ	131-3453-00
2 x 10	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ	131-3359-00
2 x 13	0.100	Right Angle	0.300	0.112	Gold	Shrouded/3 Sides, Center PLZ Long Latch	131-3384-00
2 x 13	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ	131-3361-00
2 x 17	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ	131-3363-00
2 x 20	0.100	Right Angle	0.330	0.112	Gold	Shrouded, Center PLZ 0.390 MLG	131-3181-00
2 x 25	0.100	Right Angle	0.330 H	0.112	Gold	Shrouded, Center PLZ High Temp	131-3182-00

Connectors, Headers – Supplier: AMP, Berg

HEADER – DOUBLE ROW, RIGHT ANGLE			THROUGH-HOLE			2 MM CENTERLINE	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 5	2 MM 0.079	Right Angle	0.152	0.118	Gold		131-5706-00

(Connectors, Headers continued on page 103)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Connectors, Board to Board, Ribbon Style – Supplier: 3M

MINI RIBBON – RECEPTACLE			THROUGH-HOLE			0.05 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
100	0.050	Straight Female	0.299 H	0.110	Gold	4 x 25 Staggered PCB on 0.075 Center Line HIGH TEMP	131-4618-00

Connectors, Board to Board, Ribbon Style – Supplier: 3M

MINI RIBBON – PLUG			THROUGH-HOLE			0.05 CENTERLINE	
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
100	0.050	Right Angle Male	0.307 MLG	0.110	Gold	4 x 25 Staggered PCB on 0.075 Center Line HIGH TEMP	131-4619-00
100	0.050	Straight Male	0.320 H	0.110	Gold	4 x 25 Staggered PCB on 0.075 Center Line HIGH TEMP	131-5562-00

Backplane, Board to Board – Suppliers: AMP, ELCO

DIN CONNECTORS – FEMALE – RIGHT ANGLE			THROUGH-HOLE				
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
3 X 16	0.100	Right Angle Female	0.504 MLG	0.108	Gold		131-3843-00
3 x 32	0.100	Right Angle Female	0.504 MLG	0.104	Gold	Board Retention	131-3693-00
3 x 50	0.100	Right Angle Female	0.504 MLG	0.118	Gold		131-3517-00
4 x 32	0.100	Right Angle Female	0.209 MLG	0.118	Gold Class 2	Board Retention	131-5605-00

Backplane, Board to Board – Suppliers: AMP, ELCO

DIN CONNECTORS – FEMALE – STRAIGHT			THROUGH-HOLE				
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 16	0.100	Straight Female	0.456	0.114	Gold Class 2	Board Retention	131-2951-00
3 x 16	0.100	Straight Female	0.454	0.180	Gold		131-4393-00

(Board to Board Connectors continued on page 104)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Backplane, Board to Board – Suppliers: AMP, ELCO

DIN CONNECTORS (cont.) – FEMALE – STRAIGHT				THROUGH-HOLE			
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
3 x 32	0.100	Straight Female	0.457	0.157	Gold		131-2864-00
3 x 50	0.100	Straight Female	0.450	0.114	Gold		131-5659-00

Backplane, Board to Board – Suppliers: AMP, ELCO

DIN CONNECTORS – MALE – RIGHT ANGLE				THROUGH-HOLE			
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 16	0.100	Right Angle Male	0.210 MLG	0.118	Gold	Board Retention 1/2 C	131-2949-00
3 x 16	0.100	Right Angle Male	0.209 MLG	0.114	Gold	Board Retention	131-3440-00
3 x 32	0.100	Right Angle Male	0.210 MLG	0.104	Gold	Board Retention	131-3692-00
4 x 32	0.100	Right Angle Male	0.209 MLG	0.118	Gold	Board Retention	131-5607-00

Backplane, Board to Board – Suppliers: AMP, ELCO

DIN CONNECTORS – MALE – STRAIGHT				THROUGH-HOLE			
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
3 x 16	0.100	Straight Male	0.447	0.190	Gold	1/2 DIN	131-4134-00
3 x 32	0.100	Straight Male	0.457	0.154	Gold		131-2963-00
3 x 50	0.100	Straight Male	0.457	0.157	Gold		131-3516-00
4 x 32	0.100	Straight Male	0.457	0.114	Gold Class 2	Board Retention	131-5606-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

HEADER – STRAIGHT				0.156 CENTER LINE			0.045 SQUARE PIN	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N	
1 X 2	0.156	Straight Male	0.450 MLG	0.172	Gold	PLZ Wall, with Friction Lock		131-4363-00

(Power & High Voltage Connectors continued on page 105)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Power & High Voltage Connectors – Suppliers: Molex, AMP

HEADER – STRAIGHT			0.156 CENTER LINE			0.045 SQUARE PIN	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
1 X 2	0.156	Straight Male	0.450 MLG	0.172	Tin	PLZ Wall, with Friction Lock	131-5262-00
1 X 3	0.156	Straight Male	0.450 MLG	0.172	Gold	PLZ Wall, with Friction Lock	131-5680-00
1 X 4	0.156	Straight Male	0.450 MLG	0.172	Tin	PLZ Wall, with Friction Lock	131-5259-00
1 X 6	0.156	Straight Male	0.450 MLG	0.172	Tin	PLZ Wall, with Friction Lock	131-3641-00
1 X 8	0.156	Straight Male	0.450 MLG	0.172	Gold	PLZ Wall, with Friction Lock	131-3945-00
1 X 10	0.156	Straight Male	0.450 MLG	0.172	Tin	PLZ Wall, with Friction Lock	131-4884-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

HEADER – RIGHT ANGLE			0.156 CENTER LINE			0.045 SQUARE PIN	
# of Contacts	Centerline Inch	Config.	MLG	Tail Length	Plating	Special Features	Tek P/N
1 x 22	0.156	Right Angle Male	0.390 MLG	0.175	Gold	0.045 Square	131-5435-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

MINI FIT JR			0.165 CENTER LINE			0.045 SQ	6 AMP
# of Contacts	Centerline Inch	Config.	Overall Height or MLG	Tail Length	Plating	Special Features	Tek P/N
2 x 7	0.165 x 0.217	Straight Female	0.357 H	0.140	Tin	Board Retention 6 AMP/Contact	131-5610-00
2 x 7	0.165 x 0.217	Right Angle Male	0.287 MLG	0.130	Tin	Board Retention 6 AMP/Contact	131-5609-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

MATE N LOCK			0.250 CENTER LINE,			0.093 DIA PIN	15 AMP
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
1 x 2	0.250	Straight Male	0.550	0.175	Tin	94 V-0 Latching	131-2801-00
1 x 2	0.250	Right Angle Male	0.360	0.160	Tin	94 V-0 Latching	131-3408-00

(Power & High Voltage Connectors continued on page 106)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Power & High Voltage Connectors– Suppliers: Molex, AMP

MATE N LOCK (cont.)		0.250 CENTER LINE,		0.093 DIA PIN		15 AMP	
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
1 x 5	0.250	Straight Female	0.550	0.175	Gold	94 V-0 Latching	131-4972-00
3 x 4	0.250	Straight Female	0.550	0.172	Gold	Latching 94 V-0	131-4974-00

Power & High Voltage Connectors– Suppliers: Molex, AMP

QUICK DISCONNECT TERMINALS		0.25 FASTON					
# of Contacts	Centerline Inch	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
1	0.200 PCB	Male 0.25 x 0.032	0.497	0.125	Tin		131-2427-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

DC PWR JACKS						
Pin Type	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
2MM PIN	Right Angle	0.433 H	0.137 T	Tin	With Switch 0.354 Wide	131-5527-00

Power & High Voltage Connectors – Suppliers: Molex, AMP

BATTERY CONNECTORS				
Type	Config.	Plating	Special Features	Tek P/N
9 Volt	Snap-On	Tin	5.0 Long Cut & Striped Leads	131-1160-00

I/O Connectors – Suppliers: Nutrik

AUDIO CIRCULAR							
Type	# of Positions	Config.	Overall Height / MLG	Tail Length	Plating	Special Features	Tek P/N
Audio	3	Right Angle Male	1.220	0.160	Silver	Center PLZ Latching	131-3987-00
Audio	3	Right Angle Female	0.984	0.160	Silver	Latching	131-5230-00
Phono Jack	3	Right Angle Female	0.354	0.138	Silver	Stereo, Accommodates 3.5 MM Plug, Panel Mount, Threaded	131-5440-00

(I/O Connectors continued on page 107)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

I/O Connectors – Suppliers: Nuetrik

AUDIO (cont.)		CIRCULAR					
Type	# of Positions	Config.	Overall Height / MLG	Tail Length	Plating	Special Features	Tek P/N
Phono Jack	3	Right Angle Female	0.354	0.138	Silver	Accommodates 2.5 MM Plug, Panel Mount, Threaded M4 Thread	131-5742-00
Phono Jack	2	Right Angle Female	0.313	0.138	Silver	Accommodates 2.5 MM Plug, Panel Mount, Threaded 10-48 NS-2A Thread	131-3068-00

I/O Connectors – Suppliers: JST

MINI DIN CIRCULAR							
Type	# of Positions	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
Mini din	6	Right Angle Female	0.787	0.137	Tin or Silver	Threaded Panel Mounting	131-5269-00
Mini din	8	Right Angle Female	0.787	0.138	Tin or Silver	Threaded Panel Mounting	131-5585-00
Mini din Dual	(2) 6	Right Angle Female	1.12	0.125	Tin or Silver	Din's mounted on 0.8 ctr Bd Retention	131-5604-00
Mini din	4	Right Angle Female	0.787	0.138	Tin or Silver	Threaded Panel Mounting	131-5774-00

I/O Connectors – Supplier: AMP, Molex

TELEPHONE JACKS – RIGHT ANGLE							
# of Positions	Config.	Type	Overall Height	Tail Length	Plating	Special Features	Tek P/N
8	Right Angle	Female	0.510 H	0.138	Gold	Shielded, w/Panel Stop Board Retention	131-5314-00

I/O Connectors – Supplier: AMP, Berg, Foxconn

D-SUBMINIATURE, RIGHT ANGLE							
# of Positions	Config.	Type	MLG	Tail Length	Plating	Special Features	Tek P/N
9	Right Angle	Male	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-3926-00
9	Right Angle	Female	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-3925-00
(2) 9	Right Angle	(2) Male	0.318 MLG	0.125	Gold	0.75 Connector Centers 4-40 THD Insert Board Retention	131-5563-00

(I/O Connectors continued on page 108)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

I/O Connectors– Supplier: AMP, Berg, Foxconn

D-SUBMINIATURE, RIGHT ANGLE 9cont.)

# of Positions	Config.	Type	MLG	Tail Length	Plating	Special Features	Tek P/N
15	Right Angle	Male	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-4773-00
15	Right Angle	Female	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-4046-00
25	Right Angle	Male	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-3395-00
25	Right Angle	Female	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-3396-00
37	Right Angle	Male	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-5255-00
37	Right Angle	Female	0.318 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-4364-00
15 High Density	Right Angle	Female	0.350 MLG	0.125	Gold	4-40 THD Insert Board Retention	131-5450-00

I/O Connectors – Supplier: AMP, Berg

D-SUBMINIATURE, STRAIGHT

# of Positions	Config.	Type	Overall Height	Tail Length	Plating	Special Features	Tek P/N
9	Straight	Male	0.236	0.125	Gold	4-40 THD Insert Board Retention	131-5514-00
25	Straight	Female	0.236	0.125	Gold	4-40 THD Inserts Board Retention	131-3694-00

I/O Connectors – Supplier: AMP, Berg

MINI, D-SUBMINIATURE RIGHT ANGLE

# of Positions	Config.	Type	Center Line	MLG	Tail Length	Plating	Special Features	Tek P/N
50	Right Angle	Male	0.050	0.150 MLG	0.125	Gold	4-40 THD Insert Board Retention SCSI II	131-5729-00

I/O Connectors – Suppliers: AMP, Amphenol

RIBBON STYLE

# of Positions	Config.	Type	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
24	Straight	Female	0.228 H	0.100	Gold	6-32 THD Insert Board Retention	131-5515-00

(I/O Connectors continued on page 109)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

I/O Connectors (cont.) – Suppliers: AMP, Amphenol

RIBBON STYLE		0.085 CENTERLINE					
# of Positions	Config.	Type	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
24	Right Angle	Female	0.385 MLG	0.115	Gold	Reverse Orient, Robotic Ins. w/o Shell	131-5442-00
24	Right Angle	Female	0.469 MLG	0.157	Gold	6-32 Insert Board Retention	131-5357-00
36	Right Angle	Female	0.469 MLG	0.157	Gold	4-40 THD Insert Bail Latch, Board Retention	131-5286-00
50	Right Angle	Female	0.450 MLG	0.140	Gold	Board Retention Bail Latch	131-5208-00
50	Straight	Female	0.197 MLG	0.156		Bail Latch	131-5147-00
14	Straight	Female	0.224 MLG	0.122		M 2.6 THD Inserts	131-5503-00
36	Straight	Female	0.238 MLG	0.125	Gold	Bail Latch	131-5552-00

I/O Connectors – Suppliers: AMP, Amphenol

RIBBON STYLE		0.050 CENTERLINE					
# of Positions	Config.	Type	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
14	Right Angle	Female	0.370	0.150	Gold	Shielded Panel Mount, 4 row 0.075 PCB, Latching	131-5485-00

I/O – RF Connectors – Suppliers: Specialty, AMP

BNC		RF CONNECTORS					
Style	Config.	Termination	Mtg	Length	Plating	Special Features	Tek P/N
BNC	Male/ Straight	Rear entry	0.813, 0.5 Hex		Gold/ Nickel	10X readout w/11K ohm res. w/codepin	131-3219-00
BNC	Male/ Straight	Feedthru / Front Panel	0.375-32	1.555	Gold/ Nickel	0.5 L, 22 AWG Tab,	131-0602-00
BNC	Female/ Straight	Sldr Cup / Front Panel	0.380 1 D-Flat	0.520 MLG x 0.403 Tail	Gold/ Nickel	0.04 L Sldr Cup,	131-0106-02
BNC	Female/ Straight	Sldr Cup / Front Panel	0.375-32 1 D-Flat	0.520 MLG x 0.490 Tail	Gold/ Nickel	0.092 L Sldr Cup,	131-0955-00
BNC	Female/ Straight	Sldr Cup / Front Panel	0.500-28 1 D-Flat	1.062 L	Gold/ Nickel	w/Code Ring 0.188 Behind Panel	131-3731-00
BNC	Female/ Straight	PCB / Rear Panel		1.375 MLG x 0.125 Tail	Gold/ Nickel	w/o Mounting Flange w/Mounting Post	131-3192-00

(I/O – RF Connectors continued on page 110)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

I/O – RF Connectors – Suppliers: Specialty, AMP

RF CONNECTORS							
Style	Config.	Termination	Mtg	Length	Plating	Special Features	Tek P/N
BNC	Female/ Straight	Peltola / Rear Panel, Adapter	0.375-32 1 D-Flat	0.576 MLG x 0.366 Termn.	Silver/ Nickel		131-1315-01
BNC	Female/ Right Angle	PCB / Rear Panel	0.5 - 28 THD	0.625 H x 0.187 Tail	Gold/ Nickel	With Mounting Posts w/o Mounting Flange	131-3378-00
BNC Isolated Grd	Female/ Straight	PCB / Rear Panel		1.375 H x 0.125 Tail	Gold/ Valox	w/o Mounting Flange w/Mounting Posts,	131-2817-00
BNC Isolated Grd	Female/ Right Angle	PCB / Rear Panel		0.625 H Mtg 0.130 Tail	Gold/ Valox	Nickel Barrel, with 9400 PF Cap, Mtg. Posts	131-5244-00
BNC 75 OHM	Female/ Right Angle	PCB / Rear Panel		0.625 H x 0.180 Tail		w/o Mounting Flange w/Mounting Posts	131-5414-00

I/O – RF Connectors – Suppliers: M/A Comm, Wiltron

RF CONNECTORS							
Style	Config.	Termination	Mtg	Length	Plating	Special Features	Tek P/N
SMA	Female/ FeedThru	Screw-In	0.0250-36		Gold/ Gold	Accom 0.020 Dia. Pin -10 to 65 deg C	131-0631-01
2.92 MM						Glass Bead	131-3535-00
2.92 MM	Straight	Female Feedthru	0.406	0.25-36		Spark Plug	131-3533-00

I/O – RF Connectors – Suppliers: Specialty, M/A Comm

RF CONNECTORS							
Desc.	Config.	Termination	Length	Mtg	Plating	Special Features	Tek P/N
SMB	Male Straight	Sldr Cup/ Front Panel	0.236 MLG x 0.375 Tail	10-32 1 D-Flat	Gold	, 0.250 Hex Flange	131-1170-00
SMB	Female Straight	PCB	0.293 H x 0.155 Tail		Gold/ Gold	3. 045 Sq. Tails, w/0.038 Dia Ctr, Cond, 0.2 Sq.0.312 Hex	131-0391-00
SMB	Male Right Angle	PCB	0.381 H x 0.150 Tail		Gold	0.043 Dia Ctr Cond., 0.040 Sq. Tail	131-0265-00

I/O – RF Connectors – Suppliers: NW Stamping

RF CONNECTORS							
Desc.	Config.	Termination	Length	Mtg	Plating	Special Features	Tek P/N
Peltola	Straight Female	PCB	0.277 H X 0.094 Tail		Gold		131-1003-00

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Sockets, Chip to Board – Suppliers: AMP, Berg

INDIVIDUAL SOCKETS			THROUGH-HOLE				
Type	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
Pin Term PCB		Straight Female	0.178 L		Tin/Tin Sleeve	Accom 0.013-0.020 Dia Pin, Closed Bottom, 0.038 Dia.	136-0252-01
Pin Term Single			0.030 H	0.054 PCB		T/G, 0.012-0.022 Pin Size, w/o Dimple	136-0252-07

Sockets, Chip to Board – Supplier: AMP

SIP SOCKETS			THROUGH-HOLE			0.100 CENTERLINE	
			ACCOM 0.015 THICK X 0.03 WIDE IC LEADS				
Type	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
SIP	1 x 3	Straight	0.210 H	0.120	Tin	Dual Leaf PHOS BRZ	136-1231-00
SIP	1 x 6	Straight	0.160 H	0.130 Tail	Tin	PHOS BROZ	131-3176-00
SIP	1 x 8	Straight	0.210 H	0.120	Tin	,Dual Leaf PHOS BRZ	136-1130-00
SIP	1 x 10	Straight	0.210 H	0.120	Tin	BECU	136-1157-00
SIP	1 x 15	Straight	0.210 H	0.120	Tin	Board Retention, BECU	131-3625-00
SIP	1 x 17	Straight	0.210 H	0.120	Tin	Board Retention, BECU	131-3626-00
SIP	1 x 18	Straight	0.210 H	0.120	Tin	Board Retention, PHOS BRZ	136-0949-00
SIP	1 x 20	Straight	0.210 H	0.120	Tin	Board Retention, BECU	131-3624-00
SIP	1 x 24		0.210 H	0.120	Tin	Board Retention, PHOS BRZ	136-1021-00
SIP	1 x 25	Straight	0.210 H	0.120	Tin	Board Retention, BECU	131-3623-00

Sockets, Chip to Board – Supplier: AMP, Burndy

DIP SOCKETS			THROUGH-HOLE			0.100 CENTERLINE	
			ACCOM 0.015 THICK X 0.03 WIDE IC LEADS				
Type POS. GRID	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
DIP 8.3	2 x 4	Straight	0.175 H	0.130	Tin	BECU	136-0727-00
DIP 14.3	2 x 7	Straight	0.175 H	0.130	Tin	BECU	136-0728-00
DIP 16.3	2 x 8	Straight	0.175 H	0.130	Tin	BECU	136-0729-00
DIP 18.3	2 x 9	Straight	0.175 H	0.130	Tin	BECU	136-0756-00
DIP 20.3	2 x 10	Straight	0.175 H	0.130	Tin	BECU	136-0752-00
DIP 24.3	2 x 12	Straight	0.210 H	0.120	Tin	Board Retention, BECU	136-0657-00
DIP 24.6	2 x 12	Straight	0.175 H	0.130	Tin	BECU	136-0751-00

(Sockets, Chip to Board continued on page 112)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Sockets, Chip to Board – Supplier: AMP, Burndy

DIP SOCKETS (cont.)		THROUGH-HOLE ACCOM 0.015 THICK X 0.03 WIDE IC LEADS			0.100 CENTERLINE		
Type POS. GRID	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
DIP 28.6	2 x 14	Straight	0.175 H	0.130	Tin	BECU	136-0755-00
DIP 32.6	2 x 16	Straight	0.210 H	0.128	Tin	PHOS BRZ	136-0963-00
DIP 40.6	2 x 20	Straight	0.175 H	0.130	Tin	BECU	136-0757-00

Sockets, Chip to Board – Supplier: AMP, Burndy

DIP SOCKETS		SURFACE MOUNT ACCOM 0.015 THICK X 0.03 WIDE IC LEADS			0.100 CENTERLINE		
Type POS. GRID	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
DIP 16.3	2 x 8	Straight	0.211 H	0.130	Tin	PHOS BROZ	136-5013-00

Sockets, Chip to Board – Supplier: McKenzie

PGA SOCKETS		THROUGH-HOLE ACCOM 0.018 DIAMETER LEADS			0.100 CENTERLINE		
Type	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
PGA	15 x 15	PAT 1521	0.250 H	0.125	Gold	Non-Symmetrical, LIF	136-0906-00
PGA	10 x 10	PAT 1006	0.250 H	0.110	Gold	Mot 68000, Symmetrical,LIF	136-0849-00

Sockets, Chip to Board – Suppliers: AMP, Berg

PLCC SOCKETS		THROUGH-HOLE			0.050 CENTERLINE		
Type	Positions & Center	Config.	Overall Height / MLG	Tail Length/ Width	Plating	Special Features	Tek P/N
PLCC	28 Pos		0.360 H	0.125	Tin	0.055-0.075 Shoulder Height	136-1005-00
PLCC	32 Pos		0.360 H	0.138	Tin	Rectangular Package	136-1223-00
PLCC	44 Pos		0.360 H	0.125	Tin		136-1047-00
PLCC	52 Pos		0.360 H	0.125	Tin	PLZ Post	136-0959-00
PLCC	68 Pos		0.360 H	0.125	Tin	0.060 Shoulder Height	136-0871-00
PLCC	84 Pos		0.360 H	0.125	Tin	0.055-0.075 Shoulder Height	136-0965-00

(Sockets, Chip to Board continued on page 113)

Interconnects

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Sockets, Chip to Board (cont.) – Suppliers: AMP, Berg

PLCC SOCKETS			SURFACE MOUNT			0.050 CENTERLINE	
Type	Positions & Center	Config.	Overall Height/MLG	Tail Length/Width	Plating	Special Features	Tek P/N
PLCC	28 Pos		0.176 H		Tin	with PLZ Pegs	136-5014-00
PLCC	32 Pos		0.200 H		Tin	w/o PLZ Posts, Rectangular	136-5011-00
PLCC	44 Pos		0.186 H		Tin	With PLZ Posts	136-5012-00
PLCC	44 Pos		0.186 H		Tin	W/O PLZ Posts	136-1229-00
PLCC	52 Pos		0.200 H		Tin	0.055-0.095 Shoulder Height	136-5009-00
PLCC	68 Pos		0.200 H		Tin	0.055-0.095 Shoulder Height	136-5000-00
PLCC	84 Pos		0.186 H		Tin	With PLZ Post	136-5010-00

Sockets – Suppliers: AMP, Molex

SIMM SOCKETS			THROUGH-HOLE			0.050 CENTERLINE	
Type	Pos. & Ctr.	Config.	Overall Height	Tail Length	Plating	Special Features	Tek P/N
SIMM	1 x 30 0.1 Ctr	Straight	0.535 H	0.110	Tin	0.050 +0.004/-0.003PCB	136-1097-00
SIMM	1 x 35 0.05 Ctr	22 deg	0.540 H	0.110	Tin	Metal Latch 0.050 +0.004/-0.003PCB Left Polarized	136-1251-00
SIMM	1 x 64 0.05 Ctr	Straight	0.540 H	0.095	Tin	SIMM II, 0.05 +/-0.008 PCB	136-1183-00
SIMM	1 x 72 0.05 Ctr	Straight	0.607 H	0.095	Tin	SIMM II, Metal Latch Accom 0.05 +/-0.008 PCB Custom PCB's	136-1197-00
SIMM	1 x 72 0.05 Ctr	Straight	0.540 H	0.110	Tin	Metal Latch 0.050 +0.004/-0.003PCB Off the Shelf PCB's	136-1128-00
SIMM	1 x 72 0.05 Ctr	22 deg	0.415 H	0.160 T		SIMM II, Metal Latch, Accom 0.050 +/-0.008 THK PCB, Left PLZ	136-1200-00
SIMM	1 x 72 0.05 Ctr	22 deg	0.540 H	0.110	Tin	Metal Latch 0.050 +0.004/-0.003PCB Off the Shelf PCB's	136-1160-00
SIMM	1 x 72 0.05 Ctr	Right Angle	0.429 H	0.14 Tail	Tin	0.050/0.006 THK PCB Mating 0.250 From PCB	136-1214-00
SIMM	1 x 80 0.05 Ctr	22 deg	0.540 H	0.110	Tin	Metal Latch 0.050 +0.004/-0.003PCB Left Polarized	136-1248-00

Sockets – Supplier: McKenzie, AMP

MISC. SOCKETS		THROUGH-HOLE				
Type	Positions & Center	Config.	Overall Height	Tail Length	Plating	Tek P/N
PQFP	132 Pos		0.375 H	0.145	Tin	136-1109-00
XTAL	4 Pos	Straight	0.165 H	0.125	Tin	136-1161-00

Hardware: Machine Screws, Assembled Washers

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Screw, Machine – Supplier: To Be Determined

Size	Head	Material	Plating	Torx Size	Tek P/N	EAU
4-40 X 0.250	PNH	STL	CDPL	T-10	211-0373-00	173263
4-40 X 0.500	PNH	STL	CDPL	T-9	211-0371-00	18034
4-40 X 0.750	PNH	STL	ZINC	T-10	211-0821-00	25580
6-32 X 0.188	PNH	STL	CDPL	T-15	211-0747-00	12271
6-32 X 0.250	PNH	STL	CDPL	T-15	211-0722-00	116156
6-32 X 0.375	PNH	STL	CDPL	T-15	211-0721-00	320549
6-32 X 1.750	PNH	STL	ZINC	T-15	211-0815-00	26148
6-32 X 2.000	PNH	STL	CDPL	T-15	211-0744-00	11518
8-32 X 0.375	PNH	STL	CDPL	T-20	212-0158-00	130516
8-32 X 1.125	PNH	STL	CDPL	T-20	212-0154-00	11560
10-32 X 0.375	PNH	STL	ZINC	T-25	212-0712-00	69718
10-32 X 0.625	PNH	STL	ZINC	T-25	212-0713-00	12790
10-32 X 0.875	PNH	STL	ZINC	T-25	212-0717-00	38370
10-32 X 1.250	PNH	STL	ZINC	T-25	212-0714-00	12790
M3 X 0.5MM X 10MM	PNH	STL	CDPL	T-10	211-0294-00	54152
M4 X 0.7MM X 12MM	PNH	STL	ZINC	T-20	212-0195-00	26780
2-56 X 0.188	FLH, 82	STL	CDPL	T-6	211-0390-00	15352
4-40 X 0.250	FLH, 82	STL	CDPL	T-8	211-0392-00	11440
4-40 X 0.312	FLH, 82	STL	CDPL	T-9	211-0379-00	21968
6-32 X 0.250	FLH, 100	STL	CDPL	T-10	211-0734-00	19968
6-32 X 0.312	FLH, 100	STL	CDPL	T-10	211-0718-00	74435
8-32 X 0.375	FLH, 100	STL	CDPL	T-15	212-0159-00	15367
10-32 X 0.625	FLH, 100	STL	CDPL	T-20	212-0671-00	20064
4-40 X 0.250	TRUSS	STL	CDPL	T-9	211-0343-00	43572

Screw, Assembled Washer – Supplier: TBD

Size	Head	Material	Plating	Torx Size	Tek P/N	EAU
2-56 X 0.438	PNH	STL	CDPL	T-8	211-0391-00	25368
4-40 X 0.188	PNH	SST		T-9	211-0324-00	19248
4-40 X 0.250	PNH	STL	CDPL	T-9	211-0325-00	133758
4-40 X 0.250	PNH	STL	CDPL	T-10	211-0408-00	56101
4-40 X 0.312	PNH	STL	CDPL	T-9	211-0304-00	46406
4-40 X 0.312	PNH	STL	CDPL	T-10	211-0409-00	160074
4-40 X 0.437	PNH	STL	CDPL	T-10	211-0410-00	25282
4-40 X 0.750	PNH	STL	CDPL	T-10	211-0302-00	17205
6-32 X 0.250	PNH	STL	CDPL	T-15	211-0711-00	209608

PNH = Pan Head

TRUSS = Truss Head

SCH = Socket Head

STL = Steel

SST = Stainless Steel

CDPL = Cad Plate

ZINC = Zinc Plate

PASS = Passivate

FLHxxx = Flat Head & degree

(Screw, Assembled Washers continued on page 115)

Hardware: Assembled Washers, Screw Caps, Tapping Screws, Jackscrews

John Young, 627-2165, John.Young@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Screw, Assembled Washer (cont.) – Supplier: TBD

Size	Head	Material	Plating	Torx Size	Tek P/N	EAU
6-32 X 0.375	PNH	STL	CDPL	T-15	211-0730-00	461824
6-32 X 0.500	PNH	STL	CDPL	T-15	211-0720-00	32957
6-32 X 0.625	PNH	STL	CDPL	T-15	211-0691-00	75193
6-32 X 1.250	PNH	STL	CDPL	T-15	211-0712-00	10332
8-32 X 0.500	PNH	STL	CDPL	T-20	212-0189-00	32732
10-32 X 0.500	PNH	STL	ZINC	T-25	212-0716-00	76740

Screw, Cap – Supplier: TBD

Size	Head	Material	Plating	Config.	Tek P/N	EAU
0-80 X 0.188	SCH	SST	PASS	HEX	211-0650-00	34518
2-56 X 0.125	SCH	SST	PASS	HEX, LOC PATCH	211-0261-01	22058
2-56 X 0.188	SCH	SST	PASS	HEX, LOC PATCH	211-0162-01	76897
2-56 X 0.250	SCH	SST	PASS	HEX	211-0256-00	18782
2-56 X 0.250	SCH	STL	CDPL	HEX	211-0237-00	33393
2-56 X 0.312	SCH	SST	PASS	HEX	211-0279-00	10250
2-56 X 0.375	SCH	SST	PASS	HEX	211-0265-00	22257
2-56 X 0.500	SCH	SST	PASS	HEX	211-0278-00	27489
4-40 X 0.250	SCH	SST	PASS	HEX, LOC PATCH	211-0200-01	25672

Screw, Tapping, Thread Forming – Supplier: TBD

Size	Head	Material	Plating	Config.	Torx Size	Tek P/N	EAU
2-28 X 0.312	PNH	STL	CDPL	PLASTITE	T-8	213-0984-00	11254
4-20 X 0.375	PNH	SST	CDPL	TYPE TT	T-10	213-1078-00	13468
4-40 X 0.250	PNH	STL	CDPL	TYPE TT	T-10	213-0925-00	13685
6-32 X 0.437	PNH	STL	CDPL	TYPE TT	T-15	213-0882-00	508532
10-32 X 0.500	PNH	STL	CDPL	TYPE TT	T-25	213-1075-00	77305
10-32 X 1.000	PNH	STL	CDPL	TYPE TT	T-25	213-1074-00	12790
6-32 X 0.250	FLH, 100	STL	CDPL	TYPE TT	T-10	213-0881-00	10955
6-32 X 0.500	FLH, 100	STL	CDPL	TYPE TT	T-10	213-0978-00	20412
6-32 X 0.750	FLH, 100	STL	CDPL	TYPE TT	T-10	213-0914-00	11968

Jackscrew – Supplier: TBD

Size	Description				Tek P/N	EAU
4-40 X 0.312	EXTTHD, 4-40 INTTHD, DSUB W/HARDWARE				131-0890-00	N/A
4-40 X 0.312	EXTTHD, 4-40 INTTHD, DSUB WO/HARDWARE				131-0890-01	N/A
6-32 X 0.320	EXTTHD, M3.5 X 0.6 - 6 INTTHD, GPIB				213-1061-00	19186

PNH = Pan Head
TRUSS = Truss Head
SCH = Socket Head

STL = Steel
SST = Stainless Steel

CDPL = Cad Plate
ZINC = Zinc Plate

PASS = Passivate
FLHxxx = Flat Head & degree

Hardware: Heat Sinks for TO-2XX Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Heat Sinks for TO-220 Transistors—Suppliers: Thermalloy, Aavid, IERC

Vendor P/N	Description	Thermal Resistance (°C/W)	Tek P/N
6107B-14	VERT/HORIZ MOUNT	22.7	214-1967-00
6070B	VERT/HORIZ MOUNT	18.5	214-2955-00
6071B	'HAT' FOR 6070B OR 6072B	16.7 w/ 6070B	214-2956-00
6072B	(2) DEVICES, VERT/HORIZ MOUNT	9.1	214-2957-00
6021PB	VERTICAL MOUNT, (2) SOLDERABLE TABS	15.2	214-3841-00
6043PB	CLIP-ON	25	214-3848-00
6237B	CLIP-ON	25	214-4042-00
6022PB	VERTICAL MOUNT, (2) SOLDERABLE TABS	20	214-4075-00
6225B-MT	VERTICAL MOUNT, (2) SOLDERABLE TABS	18.5	214-4116-00
6238B-MT5	VERTICAL MOUNT, CLIP-ON, (2) SOLDERABLE TABS	17.9	214-4133-00
506902B00000	VERT/HORIZ MOUNT	25	214-3309-00
576802B03900	VERTICAL MOUNT, CLIP-ON, SOLDERABLE TAB	19.2	214-3796-00
577202B00300	HORIZ MOUNT, W/4-40 SOLDERABLE ECB MOUNT	25	214-4486-00
7-363-BA	VERT/HORIZ MOUNT	20	214-3036-00
6098B	VERTICAL MOUNT, (2) SOLDERABLE PINS, 1.0" CUT EXTRU- SION	14.7	214-3477-00
6100B	VERTICAL MOUNT, (2) SOLDERABLE PINS, 2.0" CUT EXTRU- SION	9.6	214-3429-00
6101B	VERTICAL MOUNT, (2) SOLDERABLE PINS, 2.5" CUT EXTRU- SION	7.7	214-4076-00
6234B-MT	VERTICAL MOUNT, (2) SOLDERABLE TABS	12.5	214-1815-00

Heat Sinks for TO-218/TO-220/TO-247 Transistors—Suppliers: Thermalloy, Aavid

Vendor P/N	Description	Thermal Resistance (°C/W)	Tek P/N
7021B-MT5-TC10	VERTICAL MOUNT, (2) SOLDERABLE TABS, DEVICE LOCKING CLIP	8.3	214-4132-00
7022B-MT	VERTICAL MOUNT, (2) SOLDERABLE TABS	7.9	214-3674-00
7022B-MT-SF1	VERTICAL MOUNT, (2) SOLDERABLE TABS, 4-40 DEVICE MOUNT STUD	7.9	214-3674-01
7022B-MT5-TC1	VERTICAL MOUNT, (2) SOLDERABLE TABS, DEVICE LOCKING CLIP	7.9	214-4131-00
7023B-MT-SF1	VERTICAL MOUNT, (2) SOLDERABLE TABS, 4-40 DEVICE MOUNT STUD	5.0	214-3745-00
530101B00100	VERTICAL MOUNT, (2) 6-32 SOLDERABLE BOARD MOUNTS	7.1	214-4134-00
115000F00000	SPRING STEEL DEVICE CLIP FOR ABOVE HEAT SINK	-	214-4135-00

(Heat Sinks for TO-218/TO-220/TO-247 Transistors continued on page 117)

Hardware: Heat Sinks for TO-2XX Transistors

Jim Williamson, 627-2552, Jim.Williamson@TEK.COM

New adds to Rev 7.0 are shaded in gray.

Heat Sinks for TO-218/TO-220/TO-247 Transistors (cont.) –Suppliers: Thermalloy, Aavid

Vendor P/N	Description	Thermal Resistance (°C/W)	Tek P/N
530122B40100	VERTICAL MOUNT FOR (2) DEVICES, (2) 6-32 SOLDERABLE BOARD MOUNTS, (2) SILICON RUBBER INSULATORS	7.1	214-4462-00
530122B40150	VERTICAL MOUNT, FOR (2) DEVICES, (2) 6-32 SOLDERABLE BOARD MOUNTS, (2) SILICON RUBBER INSULATORS, (2) SPRING STEEL DEVICE CLIPS	7.1	214-4593-00
590102B03600	VERTICAL MOUNT, (2) SOLDERABLE TABS	11.1	214-4516-00
590302B03600	VERTICAL MOUNT, (2) SOLDERABLE TABS	9.1	214-4562-00
6392B-P3	VERTICAL MOUNT, (2) SOLDERABLE PINS W/STANDOFFS, 2.0" CUT EXTRUSION	11.6	214-4266-00
6390B	VERTICAL MOUNT, (2) SOLDERABLE PINS, 4-40 THD HOLE, 1.0" CUT EXTRUSION	20	214-4290-00

Heat Sinks for ICs–Suppliers: Thermalloy, Aavid, IERC

Vendor P/N	Description	Thermal Resistance (°C/W)	Tek P/N
6011B	FOR DIP14.3/DIP16.3, GLUE-ON, LENGTHWISE FINS	71.4	214-3238-00
7-144-BA	FOR DIP14.3/DIP16.3, GLUE-ON, WIDTHWISE FINS	71.4	214-2868-00
6087B	FOR DIP40.3, GLUE-ON, LENGTHWISE FINS	28.6	214-3847-00
2333B-8317-PF17	FOR PGA168, 1.755"X1.8" PIN FIN, W/FRAME & MOUNT SPRING	7.9	214-4455-00



List Of Deletes From PPL Rev. 6.0



Tek P/N	Description and Notes
108-5078-00	COIL,RF FXD,2.2UH,+/- 10%,Q 30, SRF 75 MHZ, DCR 1.0 OHM, I MAX320 MA, 1210 PKG,8MM T&R
108-5087-00	COIL,RF,INDUCTOR;FXD,100NH,20%,Q=28,SRF=700MHZ,DCR=0.44 OHM,IMAX=450MA;1210 PKG,8MM T&R
108-5093-00	COIL,RF,INDUCTOR;FXD,2.2UH,10%,Q=50,SRF=55MHZ,DCR=0.70 OHM,IMAX=380MA;1812 PKG,12MM T&R
108-5100-00	BEAD,FERRITE 50 OHMS @ 1 AMP/100MHZ,0.9M OHMS AT 1 AMP/DC,SMD 3209,16MM TAPE & REEL
119-4112-00	POWER SUPPLY SWITCHING,AUTO IN 85-264VAC,47-440HZ,OUT 5VDC 5A,+15 SAFETY CONTROLLED
119-4415-01	POWER SUPPLY SWITCHING,300W,MULTIPLE OUTPUT,4 AMP OUTPUT FROM +5VOLT ANALOG SUPPLYSAFETY CONTROLLED
131-5608-00	CONN,DIN PCB,;FEMALE,STR,2 X 16,0.1CTR 0.456 H X 0.114 TAIL,CLASS 2,W/BD RETENTION
156-1638-00	IC,CONVERTER BIPOLAR,D/A;10 BIT,150NS,CURRENT OUT,MULTIPLYING;DAC10GP,DIP18.3
156-2800-00	IC,CONVERTER BIPOLAR,A/D;8-BIT,25MSPS,FLASH,1W;MC10319,DIP24.6
156-3214-00	IC,CONVERTER BIPOLAR,A/D;8-BIT,10US,SAR,DIFFERENTIAL IN;AD670,DIP20.3
156-3825-01	IC,DIGITAL CMOS,PLD;OTP,5032,32 MACROCELL,20NS;5032-20,DIP28.3,TUBE
156-4096-00	IC,CONVERTER CMOS,A/D;8-BIT,40US,SAR,DIFFERENTIAL INPUT;ADC0841, DIP20.3
156-4268-00	IC,DIGITAL CMOS,PLD;OTP,5016,16 MACROCELL,17NS,83.3MHZ;EPM5016-2,DIP20.3
156-5360-01	IC,CONVERTER CMOS,D/A;QUAD,8 BIT,VOLTAGE OUT,MPU COMPATIBLE,PARALLEL BUS;AD7226KP,PLCC20,16MM T&R
156-5435-01	IC,CONVERTER CMOS,D/A;DUAL,8 BIT,200NS,CURRENT OUT MPU COMPATIBLE, MULTIPLY-ING;AD7528JP,PLCC20,16MM T&R
156-5522-00	IC,MISC TTL,INTERFACE;QUAD RS-232 LINE DRIVER;1488,SO14.150
156-5523-00	IC,MISC TTL,INTERFACE;QUAD RS-232 LINE RECEIVER;1489,SO14.150
156-5555-00	IC,DIGITAL FTTL,TRANSCEIVER;OCTAL BIDIRECTIONAL, PARITY CHECKER, 3-STATE;74F657,SO24.300,TUBE
156-5734-02	IC,DIGITAL FCTCMOS,BUFFER;10-BIT, 3-STATE;74FCT827AT,SO24.300,24MM T&R
156-5849-00	IC,CONVERTER CMOS,A/D;8-BIT,40US,SAR,W/8 CHAN MUX;0848,PLCC28-1,TUBE
156-5889-00	IC,DIGITAL CMOS,PLD;OTP,5128,30NS,8 DEDICATED INPUTS,52 I/O,128 MACRO-CELLS;EPM5128LC-2,PLCC68,TUBE
156-5891-01	IC,DIGITAL CMOS,PLD;OTP,5032,32 MACROCELL,20NS,83.3MHZ;5032-2,PLCC28-1,TUBE
156-5909-01	IC,CONVERTER CMOS,A/D;8-BIT,20MSPS,FLASH;1175A,SO24M.200,24MM T&R
156-6184-00	IC,CONVERTER CMOS,A/D;12-BIT,10US,SAR,WITH T&H,95MW;AD7870,PLCC28-1
156-6229-00	IC,DIGITAL CMOS,PLD;OTP,5064,64 MACROCELL,30NS;5064-30,PLCC44,TUBE
156-6242-00	IC,PROCESSOR CMOS,CONTROLLER;FLOPPY DISK;8473,PLCC52,TUBE
156-6355-00	IC,DIGITAL ACTCMOS,TRANSCEIVER;16-BIT,3-STATE;74ACT16245,SSO48.300,TUBE
156-6355-01	IC,DIGITAL ACTCMOS,TRANSCEIVER;16-BIT,3-STATE;74ACT16245,SSO48.300,32MM T&R
156-6528-00	IC,DIGITAL CMOS,PLD;OTP,5064,64 MACROCELL,25NS;EPM5064-1,PLCC44,TUBE
156-6798-00	IC,MISC TTL,INTERFACE;DUAL RS-232 LINE DRIVER/RECEIVER,+5V VCC,LOW POWER,EXTERNAL CAPS REQUIRED;LT1280,SO18.300,TUBE

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Component Engineering Commodity Support List

Some examples of the specific type of activities for which the component engineer offers assistance are:

IBD Liaison Activities:

- Participation with Engineering Project Teams
- Bill of Material Reviews
- First contact for line down problems
- Other issues that cross commodity lines
- Part and vendor reduction projects

Commodity Coverage Activities:

- Coordination of component strategies
- Review of new technologies
- Coordination of part evaluations
- Assistance with part selection
- Generation and maintenance of Preferred Part Lists

Each of the component engineers are prepared to coordinate the appropriate resources to answer your questions.

IBD	Component Engineer			Commodity Technical Strategy
	Name	Phone	E-Mail	
GPID	Abe Ghahyasi	627-2567	abeg@tekcci.CCI	Memory
NWD, T.V. Waveform	Jim Williamson	627-2552	jimwi@tekcci.CCI	Linear/Discrete, Power Supplies
Telecommunications	John Young	627-2165	johny@tekcci.CCI	Interconnect, Mechanical
T&M Logic Analyzers CDS/Federal Systems	Wilton Hart	627-3035	wiltonh@tekcci.CCI	Peripherals
T&M DPL/VPL	Curt Bernal	627-6103	curtb@tekcci.CCI	Electromechanical
T&M MSPL	Gary Johnson	627-1985	garyjo@tekcci.CCI	ASICs/Flat Panel Displays, Crystals
T.V.	Norm Adre	627-2524	normana@tekcci.CCI	Digital
FDI	Al Lavalle	627-6893	allaville@tekcci.CCI	Passive
	Martin Baggs	627-2534	martinb@tekcci.CCI	Circuit Boards/Optics Documentation & Software

Supplier Quality Engineering Site Support List

Some examples of activities that the SQE (Supplier Quality Engineer) is responsible for are:

- Supplier Quality Project Management
- Supplier Quality Information Collection
- DMR Control
- Supplier Quality Improvement

It is our intention that all manufacturing sites will have Supplier Quality Engineering coverage and that some of the resources will be drawn from the local IBD's.

Each of the supplier quality engineers are prepared to coordinate the appropriate resources to answer your questions.

Supplier Quality Engineer			
Name	Phone	E-Mail	Location
Nghi Nguyen	627-5098	nghin@tekcci.CCI	73
Bob Beville	627- 2986	rbeville@tekcci.CCI	73
Harry Anderton	627- 1913	harrya@tekcci.CCI	58 / 46 / 48
Loren Spohn	627- 3964	lorens@banyon.bv.tek.com	13
Jim Whitbeck	627- 3716	jameswh@pogo.WV.TEK.COM	63
Bill Zangerle	923- 4466	wjzanger@ruby.cna.tek.com	R1
TBD			GVG
Ken Erickson	685- 2812	kene@orca.wv.tek.com	60

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Please address correspondence to :

Component News & Technology
ATTN: Dave Bartles MS 47-030 or:
email to daveb@tekig5.pen.tek.com

Editor: Dave Bartles

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