

TEKTRONIX TM500/5000 MAINFRAME PASS TRANSISTORS

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Tek used at least 12 different pass transistor part numbers during the time the TM500/5000 mainframes were in production. In some cases different parts were used over certain serial number ranges. The high power compartment (when present) used the higher current transistors. Tek changed to different semiconductor families and/ or manufacturers (MFR#:) over time.

Tek specified these parameters for the various part numbers used:

TEK PART	TYPE	MFR####	Ic	BVceo	PWR	hFE@Ic	VSat	FtMIN	CASE
151-0140	NPN	2N3055H	15A	60V	115W	20@4A	1.1V	0.3MHz	TO-3
151-0258	PNP	2N4905	15A	60V	87W	20@4A	3.0V	4.0MHz	TO-3
151-0349	NPN	MJE2801	10A	60V	90W	25@3A	1.1V	2.0MHz	TO-127
151-0373	PNP	MJE2901	10A	60V	90W	25@3A	1.1V	2.0MHz	TO-127
151-0413	NPN	2N6258	30A	80V	250W	20@15A	3.0V	0.8MHz	TO-3
151-0436	PNP	MJE2801	10A	85V	90W	25@3A	1.1V	2.0MHz	TO-127
151-0652	NPN	TIP35C	25A	100V	125W	10@15A	4.0V	3.0MHz	TO-218
151-0651	PNP	TIP36C	25A	100V	125W	10@15A	4.0V	3.0MHz	TO-218
151-0917	NPN	-	15A	80V			No Data		
151-0918	PNP	-	15A	80V			No Data		
151-0937	NPN	MJF3055	10A	90V	30W	5@10A	2.5V	2.0MHz	TO-220
151-0938	PNP	MJF2955	10A	90V	30W	5@10A	2.5V	2.0MHz	TO-220

TM501

NPN 151-0349 (Select from MJE2801, MFR#: SJE924)
 PNP 151-0373 (MFR#: SJE925)

TM501A

NPN 151-0349 (Select from MJE2801, MFR#: SJE924), or MJF2955*
 PNP 151-0373 (MFR#: SJE925), or MJF3055*
 (* Found in Serial# B010657)

TM502A

NPN 151-0436 (MFR#: SJE966, MJF3055), 151-0937 (MFR#: MJF3055)
 PNP 151-0373 (Selected from SJE925), 151-0938 (MFG#: MJF2955)

TM503

NPN 151-0349 (Selected from MJE2801)
 PNP 151-0373 (Selected from SJE925)

TM503A

NPN 151-0436 (Selected from SJE966)
 PNP 151-0373 (Selected from SJE925), MJF2955, 151-0938

TM503B

NPN 151-0937 MJF3055
PNP 151-0938 MJF2955

TM504 verify on later versions

NPN 151-0436 + 2N6258 (early) / 151-0140 (late) Hi Power Comp - STANDARD
NPN 151-0436 + 151-0413 (2N6258) Hi Power Compartment - OPTION 2
PNP 151-0258 + MJ2955 (early) Hi Power Compartment
PNP 151-0373 + SJ7028 (late) Hi Power Compartment

TM504A

NPN 151-0937 + 151-0652 Hi Power Compartment
PNP 151-0938 + 151-0651 Hi Power Compartment

TM515

NPN 151-0436 TO-127 (Select from SJE966)
PNP 151-0373 TO-127 (SJE925)

TM506

NPN 151-0436, 151-0140
PNP 151-0373, 151-0258 (MFG#: MJ2955)

TM506A

NPN 151-0917, 151-0652 (MFG#: TIP35C)
PNP 151-0918, 151-0651 (MFG#: TIP36C)

TM5003

NPN 151-0436 (Selected from SJE966), 151-0937 (MFG#: MJF3055)
PNP 151-0938 (MFG#: MJF2955), 151-0373 (MFG#: SJE925)

TM5006

NPN 151-0436 (Selected from SJE966), 151-0140 (MFG#:SJ7020)
PNP 151-0373 (MFG#: SJE925), 151-0258

TM5006A

NPN 151-0937 (MFG#: MJF3055), 151-0652 (MFG#: TIP35C)
PNP 151-0938 (MFG#: MJF2955), 151-0651 (MFG#: TIP36C)
