



COMPONENT NEWS

PREPRODUCTION ENGINEERING

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COMPILED BY PRODUCT RELIABILITY INFORMATION

NO. 98

DATE 1-11-69

5 VOLT SUBMINIATURE LAMPS

Since some confusion exists as to what 5V subminiature lamps are stocked with approximate cost, the following lamps are listed as a design aid.

<u>P/N</u>	<u>DIA.</u>	<u>LENGTH</u>	<u>V</u>	<u>A</u>	<u>MSCP</u>	<u>BASE</u>	<u>LIFE</u>	<u>COST</u>
150-0049-00	.093	.350	5.0	.06	.053	Axial Lead	100k	\$1.08
-0057-00	.093	.187	5.0	.115	.147	W.L.	40k	.70
-0093-00	.093	.187	5.0	.06	.06	W.L.	100k	.70
-0045-00	.125	.375	5.0	.06	.053	M.F.	100k	.84
-0048-00	.125	.250	5.0	.06	.053	W.L.	100k	.73
-0054-00	.125	.250	5.0	.06		W.L.	100k	.73 ^{Red} Color
-0082-00	.168	.438	5.0	.06	.05	W.L.	100k	.23

Legend: MSCP = Mean spherical
candelpower.

W.L. = Wire Lead
M.F. = Miniature Flange

For further information, contact me at Ext 416.

-Clint Berry

TRIMMER POTS

BOURNS INC., has just announced a new line of cermet trimmers, Model 3329.

These units are competitive to the *HELITRIM 62P*, 1/4 inch diameter printed circuit mounting units.

Electrically, they show some advantage over the *62P*.

Mechanically they are attractive for "blind" mounting as the control features a captive screwdriver slot. For details call Ext 302.

-Larry Hudetz

TANTALUM CAPACITOR OPERATION AT LOW FREQUENCY

Excessive apparent capacitance increases in the solid tantalum capacitor at very low frequency have been observed. *SPRAGUE* confirmed our findings in general but could not furnish detailed information until test method and condition are specified. It is suggested that regardless of the nominal tolerance rating, additional capacitance tolerance of up to +40% be allowed in circuits operating at frequency significantly below 120 Hz. Evaluation is in process.

For further information call Ext 7268.

-Joe Yuen

OPERATING TEMPERATURES FOR ELECTROLYTIC CAPACITORS

The following rules apply to most electrolytic capacitors currently in use at *TEK*:

(a) Tantalum

Maximum case temperature is 95°C.

Maximum case ~~temperature~~ above ambient due to internal heating is 10°C.

(b) Aluminum

Maximum case temperature is 90°C.

Maximum case temperature above ambient due to internal heating is 15°C.

For additional information call Ext 7268.

-Joe Yuen