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RELIABILITY PREDICTION

Model : MPS-45 Data:2001-12-13

Style	Part Type	Q'ty	λg	πQ	λeg	%
9.1	Resistor-Film, Insulated (RL)	23	0.003700	10	0.851000	31.163
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	3.113
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	14.648
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.513
10.1	Capacitor-Metal, Plastic (CH)	11	0.000510	10	0.056100	2.054
10.1	Capacitor-Ceramic(Gen.) (CK)	8	0.001700	10	0.136000	4.980
10.1	Capacitor-Aluminum Dry (CE)	9	0.001300	10	0.117000	4.284
6.1	Diode-Switching	2	0.000940	8	0.015040	0.551
6.1	Diode-Power Rectifier / Schottky Power	6	0.002800	8	0.134400	4.922
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	2	0.003300	8	0.052800	1.934
6.1	Diode-Transient Suppressor/Varistor	2	0.002900	8	0.046400	1.699
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.732
6.3	Transistor-NPN/PNP	1	0.000150	8	0.001200	0.044
6.4	Transistor-MOSFET	1	0.014000	8	0.112000	4.101
6.11	OPTO-isolator	1	0.027000	8	0.216000	7.910
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.138
5.1	Linear Microcircuits	2	0.009500	10	0.190000	6.958
11.1	Transformer Switching	1	0.000610	3	0.001830	0.067
11.2	Coil Fixed inductor or choke	2	0.000032	3	0.000192	0.007
15.1	Connector- Rectangular	2	0.050000	2	0.200000	7.324
17.1	Single Connections-Reflow solder	204	0.000069	1	0.014076	0.515
22.1	Fuses	2	0.010000	1	0.020000	0.732
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.611
Total Failure rate:					2.730798	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 366193.33 **hrs**

Approved by: Compiled by: 12/13