

# MTBF REPORT

Model : KAS4 Series

MIL-HDBK-217F, Notice 2, APPENDIX A  
PARTS COUNT RELIABILITY PREDICTION

$\lambda_{eq}$  :Total failure rate (failures/10<sup>6</sup> hours)

No.	Part Type	$\lambda_g$	$\pi_Q$	$\pi_L$	N	$\lambda_{eq}$
1	Resistor (Film), RN	0.0014	10	--	11	0.154
2	Capacitor (Aluminum Dry),CE	0.02	17	--	3	1.02
3	Capacitor (Ceramic Chip,Metalized /plastic)	0.001	10	--	5	0.05
4	Capacitor Ceramic/OS CON	0.0029	10	--	2	0.058
5	Varistor	0.0029	10	--	1	0.029
6	Thermistor	0.0065	10	--	0	0
7	Switching Diode	0.0036	17	--	0	0
8	Power Rectifier Diode	0.0065	17		2	0.13
9	Voltage Ref	0.0033	10	--	1	0.033
10	ZENER	0.0033	10	--	0	0
11	Transformer	0.00145	17	--	1	0.02465
12	photo coupler&Transistor	0.0016	10	--	1	0.016
13	MOS	0.0029	17	--	1	0.0493
14	Controller	0.0095	17	--	1	0.1615
15	Inductor	0.0035	17	--	2	0.119
16	FUSE	0.01	17	--	1	0.17
17	Single Connections (Reflow solder)	0.00012	1	--	0	0
18	Single Connections (Solder)	0.000069	1	--	82	0.005658
Total Equipment Failure rate (Failures/10 <sup>6</sup> hours)						2.020108

MTBF = 495,023 HOURS 25°C