

MODEL ST3-055-04, ROHS, TRIPLE AXIS AMP MTBF

P/N 05-01339-000

MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD

ITEM	QUANTITY	FAILURE RATE PER 10⁶ HOURS	QUALITY FACTOR	TOTAL FAILURE RATE PER 10⁶ HOURS
CAPACITOR, ALUMINUM OXIDE ELECT	6	0.00012	3.0	0.0022
CAPACITOR, CERAMIC	152	0.00099	3.0	0.4514
CAPACITOR, TANTALUM	1	0.00005	3.0	0.0002
CONNECTOR	2	0.00540	2.0	0.0216
DIODE, GENERAL PURPOSE	13	0.00360	5.5	0.2574
DIODE, LIGHT EMITTING	3	0.00047	8.0	0.0113
DIODE, SCHOTTKY	28	0.00300	2.4	0.2016
DIODE, SWITCHING	10	0.00094	5.5	0.0517
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	19	0.01400	8.0	2.1280
IC, BIPOLAR LINEAR	1	0.00950	2.0	0.0190
IC, DIGITAL CMOS	70	0.00570	3.1	1.2369
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	3	0.00170	4.0	0.0204
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00002	1.0	0.0000
PROM, EE	1	0.01000	2.0	0.0200
RECTIFIER, POWER	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	42	0.00230	3.0	0.2898
RESISTOR, METAL FILM	130	0.00120	3.0	0.4680
RESISTOR, METAL FILM, PWR	9	0.01200	3.0	0.3240
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	1024	0.00007	1.0	0.0707
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			TOTAL	6.7105
			MTBF (HOURS)	149021
			MTBF (YRS)	17.01