

MODEL STP-075-07 STEPNET PANEL MTBF				
P/N 00-00579-000				
MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD				
ITEM	QUANTITY	FAILURE RATE PER 10 ⁶ HOURS	QUALITY FACTOR	TOTAL FAILURE RATE PER 10 ⁶ HOURS
CAPACITOR, ELECTROLYTIC	12	0.02400	3.0	0.8640
CAPACITOR, CERAMIC	58	0.00360	3.0	0.6264
CAPACITOR, METALLIZED PAPER	2	0.00290	3.0	0.0174
CONNECTOR	6	0.00540	2.0	0.0648
DIODE, GENERAL PURPOSE	22	0.00360	5.5	0.4356
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
FET	5	0.01400	8.0	0.5600
IC, BIPOLAR LINEAR	17	0.00950	2.0	0.3230
IC, DIGITAL CMOS	2	0.00570	3.1	0.0353
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTOR	2	0.00170	4.0	0.0136
OPTOCOUPLER/ISOLATOR	2	0.02700	8.0	0.4320
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
RECTIFIER, POWER	5	0.00280	8.0	0.1120
RESISTOR NETWORK, FILM	19	0.00230	3.0	0.1311
RESISTOR, METAL FILM	27	0.00120	3.0	0.0972
RESISTOR, WW POWER	2	0.01400	3.0	0.0840
SOLDERED CONNECTIONS	466	0.00007	1.0	0.0326
SWITCH	1	0.00100	8.4	0.0084
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER	1	0.00350	3.0	0.0105
TRANSISTOR, BIPOLAR	14	0.00015	5.5	0.0116
			TOTAL	4.2812
			MTBF (HOURS)	233578
			MTBF (YEARS)	26.66

MODEL STP-075-10 MTBF				
P/N 00-00984-000				
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	13	0.00012	3.0	0.0047
CAPACITOR, CERAMIC	60	0.00099	3.0	0.1782
CAPACITOR, METALLIZED FILM	2	0.00290	3.0	0.0174
CONNECTOR	6	0.00540	2.0	0.0648
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SWITCHING	18	0.00094	5.5	0.0931
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	13	0.01400	8.0	1.4560
IC, DIGITAL CMOS	21	0.00570	3.1	0.3711
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	2	0.00170	4.0	0.0136
OPTOCOUPLER/ISOLATOR	2	0.02700	8.0	0.4320
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	5	0.00280	8.0	0.1120
RESISTOR NETWORK, FILM	19	0.00230	3.0	0.1311
RESISTOR, METAL FILM	60	0.00120	3.0	0.2160
SOLDERED CONNECTIONS	478	0.00007	1.0	0.0330
SWITCH	1	0.00100	8.4	0.0084
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.7901
			MTBF (HOURS)	263846
			MTBF (YRS)	30.12