

STEPNET MODULAR AMP (STM-075-07) MTBF				
P/N 00-00550-000				
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, CERAMIC	46	0.00360	3.0	0.4968
CAPACITOR, METALLIZED PAPER	2	0.00290	3.0	0.0174
CAPACITOR, TANTALUM	6	0.00180	3.0	0.0324
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, GENERAL PURPOSE	20	0.00360	5.5	0.3960
FET, SILICON	9	0.01400	8.0	1.0080
IC, BIPOLAR LINEAR	16	0.00950	2.0	0.3040
IC, DIGITAL CMOS	1	0.00570	3.1	0.0177
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTOR, MOLDED	1	0.00170	4.0	0.0068
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
RECTIFIER, POWER	2	0.00280	8.0	0.0448
RESISTOR NETWORK, FILM	15	0.00230	3.0	0.1035
RESISTOR, METAL FILM	47	0.00120	3.0	0.1692
RESISTOR, WW POWER	2	0.01400	3.0	0.0840
SOLDERED CONNECTIONS	360	0.00007	1.0	0.0252
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTOR, BIPOLAR	7	0.00015	5.5	0.0058
			TOTAL	3.2055
			MTBF (HOURS)	311959
			MTBF (YEARS)	35.61

STEPNET PANEL AMP STP-075-07 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