

ACCELNET MODULAR AMPLIFIER MTBF				
ACM-xxx-xx				
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	6	0.02400	3.0	0.4320
CAPACITOR, CERAMIC	69	0.00360	3.0	0.7452
CAPACITOR, METALLIZED PAPER	2	0.00290	3.0	0.0174
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, GENERAL PURPOSE	16	0.00360	5.5	0.3168
FET	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	16	0.00950	2.0	0.3040
IC, DIGITAL CMOS	2	0.00570	3.1	0.0353
REGULATOR	2	0.00950	8.0	0.1520
INDUCTOR	1	0.00170	4.0	0.0068
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
RECTIFIER	4	0.00280	8.0	0.0896
RESISTOR NETWORK	15	0.00230	3.0	0.1035
RESISTOR, METAL FILM	42	0.00120	3.0	0.1512
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOLDERED CONNECTIONS	386	0.00007	1.0	0.0270
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTOR	4	0.00015	5.5	0.0033
			TOTAL	3.6782
			MTBF (HOURS)	271875
			MTBF (YEARS)	31.04