

<b>MODEL AEM-090-06 MTBF</b>				
<b>P/N 10-71971-03</b>				
<b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b>				
<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	205	0.00360	3.0	2.2140
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	105	0.00120	3.0	0.3780
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1838	0.00007	1.0	0.1287
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSFORMER, PULSED	2	0.00350	3.0	0.0210
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			<b>TOTAL</b>	<b>6.2314</b>
			<b>MTBF (HOURS)</b>	<b>160476</b>
			<b>MTBF (YRS)</b>	<b>18.32</b>

**MODEL AEM-090-14 MTBF****P/N 10-71971-02****MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD**

<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	205	0.00360	3.0	2.2140
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	105	0.00120	3.0	0.3780
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1838	0.00007	1.0	0.1287
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSFORMER, PULSED	2	0.00350	3.0	0.0210
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			<b>TOTAL</b>	<b>6.2314</b>
			<b>MTBF (HOURS)</b>	<b>160476</b>
			<b>MTBF (YRS)</b>	<b>18.32</b>

<b>MODEL AEM-090-30 MTBF</b>				
<b>P/N 10-71971-01</b>				
<b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b>				
<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	205	0.00360	3.0	2.2140
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	105	0.00120	3.0	0.3780
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1838	0.00007	1.0	0.1287
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSFORMER, PULSED	2	0.00350	3.0	0.0210
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			<b>TOTAL</b>	<b>6.2314</b>
			<b>MTBF (HOURS)</b>	<b>160476</b>
			<b>MTBF (YRS)</b>	<b>18.32</b>

<b>MODEL APM-090-06 MTBF</b>				
<b>P/N 10-71312-03</b>				
<b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b>				
<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	186	0.00360	3.0	2.0088
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	83	0.00120	3.0	0.2988
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1668	0.00007	1.0	0.1168
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
			<b>TOTAL</b>	<b>5.9141</b>
			<b>MTBF (HOURS)</b>	<b>169086</b>
			<b>MTBF (YRS)</b>	<b>19.30</b>

<b>MODEL APM-090-14 MTBF</b>				
<b>P/N 10-71312-02</b>				
<b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b>				
<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	186	0.00360	3.0	2.0088
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	83	0.00120	3.0	0.2988
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1668	0.00007	1.0	0.1168
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
			<b>TOTAL</b>	<b>5.9141</b>
			<b>MTBF (HOURS)</b>	<b>169086</b>
			<b>MTBF (YRS)</b>	<b>19.30</b>

<b>MODEL APM-090-30 MTBF</b>				
<b>P/N 10-71312-01</b>				
<b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b>				
<b>ITEM</b>	<b>QUANTITY</b>	<b>FAILURE RATE PER 10<sup>6</sup> HOURS</b>	<b>QUALITY FACTOR</b>	<b>TOTAL FAILURE RATE PER 10<sup>6</sup> HOURS</b>
CAPACITOR, CERAMIC	186	0.00360	3.0	2.0088
CONNECTOR	8	0.00540	2.0	0.0864
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	15	0.00094	5.5	0.0776
DIODE, ZENER	2	0.00330	5.5	0.0363
FET, SILICON	8	0.01400	8.0	0.8960
IC, DIGITAL CMOS	27	0.00570	3.1	0.4771
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	5	0.00170	4.0	0.0340
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	2	0.01000	2.0	0.0400
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	18	0.00230	3.0	0.1242
RESISTOR, METAL FILM	83	0.00120	3.0	0.2988
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOLDERED CONNECTIONS	1668	0.00007	1.0	0.1168
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
			<b>TOTAL</b>	<b>5.9141</b>
			<b>MTBF (HOURS)</b>	<b>169086</b>
			<b>MTBF (YRS)</b>	<b>19.30</b>