

MODEL ACJ-055-09 MTBF				
P/N 00-00679-000				
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, ALUMINUM OXIDE	11	0.02400	3.0	0.7920
CAPACITOR, CERAMIC	114	0.00360	3.0	1.2312
CAPACITOR, METALLIZED PAPER	5	0.00290	3.0	0.0435
CAPACITOR, TANTALUM	2	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	13	0.00094	5.5	0.0672
DIODE, ZENER	5	0.00330	5.5	0.0908
FET	3	0.01400	8.0	0.3360
IC, BIPOLAR LINEAR	18	0.00950	2.0	0.3420
IC, DIGITAL CMOS	25	0.00570	3.1	0.4418
IC, REGULATOR	5	0.00950	8.0	0.3800
INDUCTOR	4	0.00170	4.0	0.0272
OSCILLATOR, CRYSTAL	2	0.03200	2.1	0.1344
PROM, EE	2	0.01000	2.0	0.0400
RESISTOR NETWORK, FILM	44	0.00230	3.0	0.3036
RESISTOR, METAL FILM	90	0.00120	3.0	0.3240
RESISTOR, WW POWER	7	0.01400	3.0	0.2940
SOCKET	3	0.00540	2.0	0.0324
SOLDERED CONNECTIONS	780	0.00007	1.0	0.0546
THERMISTOR	2	0.06500	3.0	0.3900
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTOR	24	0.00015	5.5	0.0198
			TOTAL	6.3663
			MTBF (HOURS)	157076
			MTBF (YEARS)	17.93

MODEL ACJ-055-18 MTBF				
P/N 00-00680-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED PAPER	5	0.00290	3.0	0.0435
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	3	0.00330	5.5	0.0545
FET	20	0.01400	8.0	2.2400
IC, BIPOLAR LINEAR	11	0.00950	2.0	0.2090
IC, DIGITAL CMOS	9	0.00570	3.1	0.1590
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTOR	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PROM, EE	1	0.01000	2.0	0.0200
RESISTOR NETWORK, FILM	23	0.00230	3.0	0.1587
RESISTOR, METAL FILM	62	0.00120	3.0	0.2232
RESISTOR, WW POWER	7	0.01400	3.0	0.2940
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	504	0.00007	1.0	0.0353
THERMISTOR	2	0.06500	3.0	0.3900
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTOR	3	0.00015	5.5	0.0025
			TOTAL	6.5996
			MTBF (HOURS)	151524
			MTBF (YEARS)	17.30

MODEL ACJ-090-09 MTBF				
P/N 00-00682-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED PAPER	5	0.00290	3.0	0.0435
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	20	0.01400	8.0	2.2400
IC, BIPOLAR LINEAR	14	0.00950	2.0	0.2660
IC, DIGITAL CMOS	7	0.00570	3.1	0.1237
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PROM, EE	1	0.01000	2.0	0.0200
RESISTOR NETWORK, FILM	23	0.00230	3.0	0.1587
RESISTOR, METAL FILM	62	0.00120	3.0	0.2232
RESISTOR, WW POWER	7	0.01400	3.0	0.2940
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	506	0.00007	1.0	0.0354
THERMISTOR	2	0.06500	3.0	0.3900
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTORS	3	0.00015	5.5	0.0025
			TOTAL	6.6214
			MTBF (HOURS)	151025
			MTBF (YRS)	17.24

MODEL ACJ-090-12 MTBF				
P/N 00-00683-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED PAPER	5	0.00290	3.0	0.0435
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	3	0.00330	5.5	0.0545
FET	20	0.01400	8.0	2.2400
IC, BIPOLAR LINEAR	16	0.00950	2.0	0.3040
IC, DIGITAL CMOS	7	0.00570	3.1	0.1237
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS, MOLDED	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PROM, EE	1	0.01000	2.0	0.0200
RESISTOR NETWORK, FILM	23	0.00230	3.0	0.1587
RESISTOR, METAL FILM	62	0.00120	3.0	0.2232
RESISTOR, WW POWER	7	0.01400	3.0	0.2940
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS		0.00007	1.0	0.0000
THERMISTOR	2	0.06500	3.0	0.3900
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSISTORS	3	0.00015	5.5	0.0025
			TOTAL	6.6240
			MTBF (HOURS)	150966
			MTBF (YRS)	17.23

MODEL ACJ-055-09-S MTBF				
P/N 00-00715-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED FILM	3	0.00290	3.0	0.0261
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	4	0.00330	5.5	0.0726
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	7	0.00950	2.0	0.1330
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
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	24	0.00230	3.0	0.1656
RESISTOR, METAL FILM	64	0.00120	3.0	0.2304
RESISTOR, METAL FILM, PWR	3	0.01200	3.0	0.1080
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	504	0.00007	1.0	0.0353
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, PULSE	1	0.00350	3.0	0.0105
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	5.4161
			MTBF (HOURS)	184634
			MTBF (YRS)	21.08

MODEL ACJ-055-18-S MTBF				
P/N 00-00716-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED FILM	3	0.00290	3.0	0.0261
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	4	0.00330	5.5	0.0726
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	7	0.00950	2.0	0.1330
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
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	24	0.00230	3.0	0.1656
RESISTOR, METAL FILM	64	0.00120	3.0	0.2304
RESISTOR, METAL FILM, PWR	3	0.01200	3.0	0.1080
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	504	0.00007	1.0	0.0353
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, PULSE	1	0.00350	3.0	0.0105
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	5.4161
			MTBF (HOURS)	184634
			MTBF (YRS)	21.08

MODEL ACJ-090-03-S MTBF				
P/N 00-00717-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED FILM	3	0.00290	3.0	0.0261
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	4	0.00330	5.5	0.0726
FET, SILICON	14	0.01400	8.0	1.5680
IC, BIPOLAR LINEAR	8	0.00950	2.0	0.1520
IC, DIGITAL CMOS	19	0.00570	3.1	0.3357
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	24	0.00230	3.0	0.1656
RESISTOR, METAL FILM	64	0.00120	3.0	0.2304
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	510	0.00007	1.0	0.0357
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, PULSE	1	0.00350	3.0	0.0105
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	5.7726
			MTBF (HOURS)	173233
			MTBF (YRS)	19.78

MODEL ACJ-090-09-S MTBF				
P/N 00-00718-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED FILM	3	0.00290	3.0	0.0261
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	4	0.00330	5.5	0.0726
FET, SILICON	14	0.01400	8.0	1.5680
IC, BIPOLAR LINEAR	8	0.00950	2.0	0.1520
IC, DIGITAL CMOS	19	0.00570	3.1	0.3357
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	24	0.00230	3.0	0.1656
RESISTOR, METAL FILM	64	0.00120	3.0	0.2304
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	510	0.00007	1.0	0.0357
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, PULSE	1	0.00350	3.0	0.0105
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	5.7726
			MTBF (HOURS)	173233
			MTBF (YRS)	19.78

MODEL ACJ-090-12-S MTBF				
P/N 00-00719-000				
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	9	0.02400	3.0	0.6480
CAPACITOR, CERAMIC	66	0.00360	3.0	0.7128
CAPACITOR, METALLIZED FILM	3	0.00290	3.0	0.0261
CAPACITOR, TANTALUM	1	0.00180	3.0	0.0054
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.04700	2.5	0.9400
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	4	0.00330	5.5	0.0726
FET, SILICON	14	0.01400	8.0	1.5680
IC, BIPOLAR LINEAR	8	0.00950	2.0	0.1520
IC, DIGITAL CMOS	19	0.00570	3.1	0.3357
IC, REGULATOR	3	0.00950	8.0	0.2280
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	24	0.00230	3.0	0.1656
RESISTOR, METAL FILM	64	0.00120	3.0	0.2304
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	2	0.00540	2.0	0.0216
SOLDERED CONNECTIONS	510	0.00007	1.0	0.0357
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, PULSE	1	0.00350	3.0	0.0105
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	5.7726
			MTBF (HOURS)	173233
			MTBF (YRS)	19.78