

MODEL R21-055-09 ROHS MTBF				
P/N 00-00960-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	70	0.00099	3.0	0.2079
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	5	0.00950	2.0	0.0950
IC, DIGITAL CMOS	21	0.00570	3.1	0.3711
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
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	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	498	0.00007	1.0	0.0344
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	6	0.00015	5.5	0.0050
			TOTAL	2.8711
			MTBF (HOURS)	348298
			MTBF (YRS)	39.76

MODEL R21-055-09-S ROHS MTBF				
P/N 00-00965-000				
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	18	0.00012	3.0	0.0065
CAPACITOR, CERAMIC	65	0.00099	3.0	0.1931
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, DIGITAL CMOS	30	0.00570	3.1	0.5301
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	25	0.00230	3.0	0.1725
RESISTOR, METAL FILM	66	0.00120	3.0	0.2376
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	520	0.00007	1.0	0.0359
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.3838
			MTBF (HOURS)	295522
			MTBF (YRS)	33.74

MODEL R21-055-18 ROHS MTBF				
P/N 00-00961-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	70	0.00099	3.0	0.2079
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	5	0.00950	2.0	0.0950
IC, DIGITAL CMOS	21	0.00570	3.1	0.3711
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
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	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	498	0.00007	1.0	0.0344
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	6	0.00015	5.5	0.0050
			TOTAL	2.8711
			MTBF (HOURS)	348298
			MTBF (YRS)	39.76

MODEL R21-055-18-S ROHS MTBF				
P/N 00-00966-000				
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	18	0.00012	3.0	0.0065
CAPACITOR, CERAMIC	65	0.00099	3.0	0.1931
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, DIGITAL CMOS	30	0.00570	3.1	0.5301
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	25	0.00230	3.0	0.1725
RESISTOR, METAL FILM	66	0.00120	3.0	0.2376
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	520	0.00007	1.0	0.0359
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.3838
			MTBF (HOURS)	295522
			MTBF (YRS)	33.74

MODEL R21-090-03 ROHS MTBF				
P/N 00-00962-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	70	0.00099	3.0	0.2079
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	3	0.00950	2.0	0.0570
IC, DIGITAL CMOS	26	0.00570	3.1	0.4594
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
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, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	502	0.00007	1.0	0.0346
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.3464
			MTBF (HOURS)	298826
			MTBF (YRS)	34.11

MODEL R21-090-03-S ROHS MTBF				
P/N 00-00967-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	74	0.00099	3.0	0.2198
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, DIGITAL CMOS	30	0.00570	3.1	0.5301
IC, REGULATOR	2	0.00950	8.0	0.1520
IGBT		0.01400	8.0	0.0000
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	25	0.00230	3.0	0.1725
RESISTOR, METAL FILM	66	0.00120	3.0	0.2376
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	520	0.00007	1.0	0.0359
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.4073
			MTBF (HOURS)	293485
			MTBF (YRS)	33.50

MODEL R21-090-09 ROHS MTBF				
P/N 00-00963-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	70	0.00099	3.0	0.2079
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	3	0.00950	2.0	0.0570
IC, DIGITAL CMOS	26	0.00570	3.1	0.4594
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
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, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	502	0.00007	1.0	0.0346
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.3464
			MTBF (HOURS)	298826
			MTBF (YRS)	34.11

MODEL R21-090-09-S ROHS MTBF				
P/N 00-00968-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	74	0.00099	3.0	0.2198
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, DIGITAL CMOS	30	0.00570	3.1	0.5301
IC, REGULATOR	2	0.00950	8.0	0.1520
IGBT		0.01400	8.0	0.0000
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	25	0.00230	3.0	0.1725
RESISTOR, METAL FILM	66	0.00120	3.0	0.2376
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	520	0.00007	1.0	0.0359
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.4073
			MTBF (HOURS)	293485
			MTBF (YRS)	33.50

MODEL R21-090-12 ROHS MTBF				
P/N 00-00964-000				
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	0.00012	3.0	0.0032
CAPACITOR, CERAMIC	70	0.00099	3.0	0.2079
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	5	0.00950	2.0	0.0950
IC, DIGITAL CMOS	21	0.00570	3.1	0.3711
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
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	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	498	0.00007	1.0	0.0344
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	6	0.00015	5.5	0.0050
			TOTAL	2.8711
			MTBF (HOURS)	348298
			MTBF (YRS)	39.76

MODEL R21-090-12-S ROHS MTBF				
P/N 00-00969-000				
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	18	0.00012	3.0	0.0065
CAPACITOR, CERAMIC	65	0.00099	3.0	0.1931
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	8	0.00300	2.4	0.0576
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	3	0.00330	5.5	0.0545
FET, SILICON	11	0.01400	8.0	1.2320
IC, DIGITAL CMOS	30	0.00570	3.1	0.5301
IC, REGULATOR	2	0.00950	8.0	0.1520
INDUCTORS	2	0.00170	4.0	0.0136
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	3	0.00002	1.0	0.0001
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	3	0.00280	8.0	0.0672
RESISTOR NETWORK, FILM	25	0.00230	3.0	0.1725
RESISTOR, METAL FILM	66	0.00120	3.0	0.2376
RESISTOR, WW POWER	4	0.01400	3.0	0.1680
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	520	0.00007	1.0	0.0359
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSISTORS, BIPOLAR	2	0.00015	5.5	0.0017
			TOTAL	3.3838
			MTBF (HOURS)	295522
			MTBF (YRS)	33.74