

MODEL XSJ-230-02 MTBF				
P/N 00-00706-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	120	0.00360	3.0	1.2960
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	6	0.04700	2.5	0.7050
DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79

MODEL XSJ-230-02-R ROHS MTBF				
P/N 00-00786-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	137	0.00360	3.0	1.4796
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	10	0.04700	2.5	1.1750
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	3	0.00950	2.0	0.0570
IC, DIGITAL CMOS	46	0.00570	3.1	0.8128
IC, REGULATOR	5	0.00950	8.0	0.3800
IGBT	10	0.01400	8.0	1.1200
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	4	0.02700	8.0	0.8640
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	7	0.00280	8.0	0.1568
RESISTOR NETWORK, FILM	31	0.00230	3.0	0.2139
RESISTOR, METAL FILM	102	0.00120	3.0	0.3672
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	834	0.00007	1.0	0.0584
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	2	0.00290	5.5	0.0319
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	9.7592
			MTBF (HOURS)	102468
			MTBF (YRS)	11.70

MODEL XSJ-230-02-S MTBF				
P/N 00-00761-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	120	0.00360	3.0	1.2960
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	6	0.04700	2.5	0.7050
DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79

MODEL XSJ-230-06 MTBF				
P/N 00-00707-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	120	0.00360	3.0	1.2960
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	6	0.04700	2.5	0.7050
DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79

MODEL XSJ-230-06-R ROHS MTBF				
P/N 00-00787-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	137	0.00360	3.0	1.4796
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	10	0.04700	2.5	1.1750
DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	3	0.00950	2.0	0.0570
IC, DIGITAL CMOS	46	0.00570	3.1	0.8128
IC, REGULATOR	5	0.00950	8.0	0.3800
IGBT	10	0.01400	8.0	1.1200
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	4	0.02700	8.0	0.8640
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	7	0.00280	8.0	0.1568
RESISTOR NETWORK, FILM	31	0.00230	3.0	0.2139
RESISTOR, METAL FILM	102	0.00120	3.0	0.3672
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	834	0.00007	1.0	0.0584
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	2	0.00290	5.5	0.0319
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	9.7592
			MTBF (HOURS)	102468
			MTBF (YRS)	11.70

MODEL XSJ-230-06-S MTBF				
P/N 00-00762-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	120	0.00360	3.0	1.2960
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	6	0.04700	2.5	0.7050
DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79

MODEL XSJ-230-10 MTBF				
P/N 00-00708-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	120	0.00360	3.0	1.2960
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	6	0.04700	2.5	0.7050
DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79

MODEL XSJ-230-10-R ROHS MTBF				
P/N 00-00788-000				
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	8	0.02400	3.0	0.5760
CAPACITOR, CERAMIC	137	0.00360	3.0	1.4796
CONNECTOR	1	0.00540	2.0	0.0108
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
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DIODE, SWITCHING	8	0.00094	5.5	0.0414
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	11	0.01400	8.0	1.2320
IC, BIPOLAR LINEAR	3	0.00950	2.0	0.0570
IC, DIGITAL CMOS	46	0.00570	3.1	0.8128
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IGBT	10	0.01400	8.0	1.1200
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	4	0.02700	8.0	0.8640
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	7	0.00280	8.0	0.1568
RESISTOR NETWORK, FILM	31	0.00230	3.0	0.2139
RESISTOR, METAL FILM	102	0.00120	3.0	0.3672
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	1	0.00540	2.0	0.0108
SOLDERED CONNECTIONS	834	0.00007	1.0	0.0584
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER, FLYBACK	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	2	0.00290	5.5	0.0319
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	9.7592
			MTBF (HOURS)	102468
			MTBF (YRS)	11.70

MODEL XSJ-230-10-S MTBF				
P/N 00-00763-000				
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	8	0.02400	3.0	0.5760
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DIODE, SWITCHING	14	0.00094	5.5	0.0724
DIODE, ZENER	9	0.00330	5.5	0.1634
FET, SILICON	7	0.01400	8.0	0.7840
IC, BIPOLAR LINEAR	15	0.00950	2.0	0.2850
IC, DIGITAL CMOS	31	0.00570	3.1	0.5478
IC, REGULATOR	6	0.00950	8.0	0.4560
IGBT	6	0.01400	8.0	0.6720
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	7	0.02700	8.0	1.5120
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	4	0.00280	8.0	0.0896
RESISTOR NETWORK, FILM	32	0.00230	3.0	0.2208
RESISTOR, METAL FILM	94	0.00120	3.0	0.3384
RESISTOR, WW POWER	5	0.01400	3.0	0.2100
SOCKET	11	0.00540	2.0	0.1188
SOLDERED CONNECTIONS	788	0.00007	1.0	0.0552
THERMISTOR	3	0.06500	3.0	0.5850
TRANSFORMER	1	0.02300	3.0	0.0690
TRANSIENT VOLTAGE SUPPRESSOR	1	0.00290	5.5	0.0160
TRANSISTORS, BIPOLAR	3	0.00015	5.5	0.0025
			TOTAL	8.9273
			MTBF (HOURS)	112017
			MTBF (YRS)	12.79