

| MODEL R11-230-02 ROHS MTBF | | | | |
|---|-----------------|--|---------------------------|--|
| P/N 00-01007-000 | | | | |
| 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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |

| MODEL R11-230-02-R ROHS MTBF | | | | |
|---|-----------------|--|---------------------------|--|
| P/N 00-01013-000 | | | | |
| 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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 137 | 0.00099 | 3.0 | 0.4069 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 9 | 0.00300 | 2.4 | 0.0648 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 4 | 0.00950 | 2.0 | 0.0760 |
| IC, DIGITAL CMOS | 55 | 0.00570 | 3.1 | 0.9719 |
| IC, REGULATOR | 5 | 0.00950 | 8.0 | 0.3800 |
| IGBT | 6 | 0.01400 | 8.0 | 0.6720 |
| INDUCTORS | 1 | 0.00170 | 4.0 | 0.0068 |
| OPTOCOUPLER/ISOLATOR | 8 | 0.02700 | 8.0 | 1.7280 |
| OSCILLATOR, CRYSTAL | 1 | 0.03200 | 2.1 | 0.0672 |
| PCB | 3 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 32 | 0.00230 | 3.0 | 0.2208 |
| 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 | 852 | 0.00007 | 1.0 | 0.0588 |
| 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 | 7.3796 |
| | | | MTBF (HOURS) | 135509 |
| | | | MTBF (YRS) | 15.47 |

MODEL R11-230-02-S ROHS MTBF

P/N 00-01010-000

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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |

| MODEL R11-230-06 ROHS MTBF | | | | |
|---|-----------------|--|---------------------------|--|
| P/N 00-01008-000 | | | | |
| 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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |

MODEL R11-230-06-R ROHS MTBF

P/N 00-01014-000

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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 137 | 0.00099 | 3.0 | 0.4069 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 9 | 0.00300 | 2.4 | 0.0648 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 4 | 0.00950 | 2.0 | 0.0760 |
| IC, DIGITAL CMOS | 55 | 0.00570 | 3.1 | 0.9719 |
| IC, REGULATOR | 5 | 0.00950 | 8.0 | 0.3800 |
| IGBT | 6 | 0.01400 | 8.0 | 0.6720 |
| INDUCTORS | 1 | 0.00170 | 4.0 | 0.0068 |
| OPTOCOUPLER/ISOLATOR | 8 | 0.02700 | 8.0 | 1.7280 |
| OSCILLATOR, CRYSTAL | 1 | 0.03200 | 2.1 | 0.0672 |
| PCB | 3 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 32 | 0.00230 | 3.0 | 0.2208 |
| 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 | 852 | 0.00007 | 1.0 | 0.0588 |
| 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 | 7.3796 |
| | | | MTBF (HOURS) | 135509 |
| | | | MTBF (YRS) | 15.47 |

MODEL R11-230-06-S ROHS MTBF

P/N 00-01011-000

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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |

| MODEL R11-230-10 ROHS MTBF | | | | |
|---|-----------------|--|---------------------------|--|
| P/N 00-01009-000 | | | | |
| 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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |

| MODEL R11-230-10-R ROHS MTBF | | | | |
|---|-----------------|--|---------------------------|--|
| P/N 00-01015-000 | | | | |
| 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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 137 | 0.00099 | 3.0 | 0.4069 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 9 | 0.00300 | 2.4 | 0.0648 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 4 | 0.00950 | 2.0 | 0.0760 |
| IC, DIGITAL CMOS | 55 | 0.00570 | 3.1 | 0.9719 |
| IC, REGULATOR | 5 | 0.00950 | 8.0 | 0.3800 |
| IGBT | 6 | 0.01400 | 8.0 | 0.6720 |
| INDUCTORS | 1 | 0.00170 | 4.0 | 0.0068 |
| OPTOCOUPLER/ISOLATOR | 8 | 0.02700 | 8.0 | 1.7280 |
| OSCILLATOR, CRYSTAL | 1 | 0.03200 | 2.1 | 0.0672 |
| PCB | 3 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 32 | 0.00230 | 3.0 | 0.2208 |
| 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 | 852 | 0.00007 | 1.0 | 0.0588 |
| 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 | 7.3796 |
| | | | MTBF (HOURS) | 135509 |
| | | | MTBF (YRS) | 15.47 |

MODEL R11-230-10-S ROHS MTBF

P/N 00-01012-000

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 | 0.00012 | 3.0 | 0.0029 |
| CAPACITOR, CERAMIC | 125 | 0.00099 | 3.0 | 0.3713 |
| CONNECTOR | 1 | 0.00540 | 2.0 | 0.0108 |
| DIODE, LIGHT EMITTING | 2 | 0.00047 | 8.0 | 0.0075 |
| DIODE, SCHOTTKY | 7 | 0.00300 | 2.4 | 0.0504 |
| DIODE, SWITCHING | 4 | 0.00094 | 5.5 | 0.0207 |
| DIODE, ZENER | 9 | 0.00330 | 5.5 | 0.1634 |
| FET, SILICON | 8 | 0.01400 | 8.0 | 0.8960 |
| IC, BIPOLAR LINEAR | 3 | 0.00950 | 2.0 | 0.0570 |
| IC, DIGITAL CMOS | 45 | 0.00570 | 3.1 | 0.7952 |
| 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 | 0.00002 | 1.0 | 0.0001 |
| PROM, EE | 4 | 0.01000 | 2.0 | 0.0800 |
| RECTIFIER, POWER | 12 | 0.00280 | 8.0 | 0.2688 |
| RESISTOR NETWORK, FILM | 33 | 0.00230 | 3.0 | 0.2277 |
| RESISTOR, METAL FILM | 101 | 0.00120 | 3.0 | 0.3636 |
| RESISTOR, WW POWER | 5 | 0.01400 | 3.0 | 0.2100 |
| SOCKET | 1 | 0.00540 | 2.0 | 0.0108 |
| SOLDERED CONNECTIONS | 800 | 0.00007 | 1.0 | 0.0552 |
| THERMISTOR | 3 | 0.06500 | 3.0 | 0.5850 |
| TRANSFORMER, FLYBACK | 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 | 6.7016 |
| | | | MTBF (HOURS) | 149218 |
| | | | MTBF (YRS) | 17.03 |