

<b>MODEL R10-230-18 ROHS MTBF</b>				
<b>P/N 00-00816-000</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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

<b>MODEL R10-230-36 ROHS MTBF</b>				
<b>P/N 00-00810-000</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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

<b>MODEL R10-230-40 ROHS MTBF</b>				
<b>P/N 00-00813-000</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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

<b>MODEL R10-230-18-S ROHS MTBF</b>				
<b>P/N 00-00807-000</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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

**MODEL R10-230-36-S ROHS MTBF****P/N 00-00801-000****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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

**MODEL R10-230-40-S ROHS MTBF**

**P/N 00-00804-000**

**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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

<b>MODEL R10-230-18-R ROHS MTBF</b>				
<b>P/N 00-00798-000</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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

**MODEL R10-230-36-R ROHS MTBF**

**P/N 00-00792-000**

**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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>

**MODEL R10-230-40-R ROHS MTBF**

**P/N 00-00795-000**

**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, ALUMINUM OXIDE ELECT	24	0.02400	3.0	1.7280
CAPACITOR, CERAMIC	140	0.00360	3.0	1.5120
CAPACITOR, METALLIZED FILM	8	0.00290	3.0	0.0696
CONNECTOR	4	0.00540	2.0	0.0432
DIODE, LIGHT EMITTING	2	0.00047	8.0	0.0075
DIODE, SCHOTTKY	2	0.04700	2.5	0.2350
DIODE, SWITCHING	11	0.00094	5.5	0.0569
DIODE, ZENER	11	0.00330	5.5	0.1997
FET, SILICON	6	0.01400	8.0	0.6720
IC, DIGITAL CMOS	36	0.00570	3.1	0.6361
IC, REGULATOR	8	0.00950	8.0	0.6080
IGBT	1	0.01400	8.0	0.1120
INDUCTORS	1	0.00170	4.0	0.0068
OPTOCOUPLER/ISOLATOR	11	0.02700	8.0	2.3760
OSCILLATOR, CRYSTAL	1	0.03200	2.1	0.0672
PCB	2	0.00004	2.0	0.0002
PROM, EE	3	0.01000	2.0	0.0600
RECTIFIER, POWER	10	0.00280	8.0	0.2240
RESISTOR NETWORK, FILM	35	0.00230	3.0	0.2415
RESISTOR, METAL FILM	117	0.00120	3.0	0.4212
RESISTOR, WW POWER	1	0.01400	3.0	0.0420
SOLDERED CONNECTIONS	894	0.00007	1.0	0.0626
SWITCH	2	0.00100	8.4	0.0168
THERMISTOR	1	0.06500	3.0	0.1950
TRANSFORMER, FLYBACK	3	0.02300	3.0	0.2070
TRANSIENT VOLTAGE SUPPRESSOR	3	0.00290	5.5	0.0479
TRANSISTORS, BIPOLAR	4	0.00015	5.5	0.0033
			<b>TOTAL</b>	<b>9.8514</b>
			<b>MTBF (HOURS)</b>	<b>101509</b>
			<b>MTBF (YRS)</b>	<b>11.59</b>