

**MODEL ADP-055-18 ROHS**

**P/N 00-00866-000**

**MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD**

| <b>ITEM</b>                     | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
|---------------------------------|-----------------|--|---------------------------|--|
| CAPACITOR, ALUMINUM OXIDE ELECT | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC              | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR                       | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING           | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY                 | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING                | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER                    | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON                    | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR              | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS                | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR                   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS                       | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL             | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB                             | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE                        | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER                | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM          | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM            | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER              | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS            | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH                          | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR                      | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK            | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR    | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR            | 2               | 0.00015  | 5.5                       | 0.0017   |
|                                 |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|                                 |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|                                 |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-055-18-S ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00842-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-090-09 ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00867-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-090-09-S ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00843-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-090-18 ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00868-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-090-18-S ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00844-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

**MODEL ADP-090-36 ROHS**

**P/N 00-00869-000**

**MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD**

| <b>ITEM</b>                     | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
|---------------------------------|-----------------|--|---------------------------|--|
| CAPACITOR, ALUMINUM OXIDE ELECT | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC              | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR                       | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING           | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY                 | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING                | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER                    | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON                    | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR              | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS                | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR                   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS                       | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL             | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB                             | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE                        | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER                | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM          | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM            | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER              | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS            | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH                          | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR                      | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK            | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR    | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR            | 2               | 0.00015  | 5.5                       | 0.0017   |
|                                 |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|                                 |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|                                 |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-090-36-S ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00845-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |



**MODEL ADP-180-09 ROHS**

**P/N 00-00870-000**

**MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD**

| <b>ITEM</b>                     | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
|---------------------------------|-----------------|--|---------------------------|--|
| CAPACITOR, ALUMINUM OXIDE ELECT | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC              | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR                       | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING           | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY                 | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING                | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER                    | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON                    | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR              | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS                | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR                   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS                       | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL             | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB                             | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE                        | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER                | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM          | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM            | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER              | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS            | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH                          | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR                      | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK            | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR    | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR            | 2               | 0.00015  | 5.5                       | 0.0017   |
|                                 |                 |  |                           |  |
|                                 |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|                                 |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|                                 |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

**MODEL ADP-180-09-S ROHS**

**P/N 00-00846-000**

**MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD**

| <b>ITEM</b>                     | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
|---------------------------------|-----------------|--|---------------------------|--|
| CAPACITOR, ALUMINUM OXIDE ELECT | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC              | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR                       | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING           | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY                 | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING                | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER                    | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON                    | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR              | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS                | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR                   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS                       | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL             | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB                             | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE                        | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER                | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM          | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM            | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER              | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS            | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH                          | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR                      | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK            | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR    | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR            | 2               | 0.00015  | 5.5                       | 0.0017   |
|                                 |                 |  |                           |  |
|                                 |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|                                 |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|                                 |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-180-18 ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00871-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |

| <b>MODEL ADP-180-18-S ROHS</b>  |                 |  |                           |  |
|---|-----------------|--|---------------------------|--|
| <b>P/N 00-00847-000</b>   |                 |  |                           |  |
| <b>MTBF CALCULATION PER MIL-HDBK-217F PARTS COUNT RELIABILITY PREDICTION METHOD</b> |                 |  |                           |  |
| <b>ITEM</b>   | <b>QUANTITY</b> | <b>FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> | <b>QUALITY<br/>FACTOR</b> | <b>TOTAL FAILURE RATE<br/>PER 10<sup>6</sup> HOURS</b> |
| CAPACITOR, ALUMINUM OXIDE ELECT   | 9               | 0.02400  | 3.0                       | 0.6480   |
| CAPACITOR, CERAMIC  | 88              | 0.00360  | 3.0                       | 0.9504   |
| CONNECTOR   | 4               | 0.00540  | 2.0                       | 0.0432   |
| DIODE, LIGHT EMITTING   | 2               | 0.00047  | 8.0                       | 0.0075   |
| DIODE, SCHOTTKY   | 4               | 0.04700  | 2.5                       | 0.4700   |
| DIODE, SWITCHING  | 15              | 0.00094  | 5.5                       | 0.0776   |
| DIODE, ZENER  | 3               | 0.00330  | 5.5                       | 0.0545   |
| FET, SILICON  | 10              | 0.01400  | 8.0                       | 1.1200   |
| IC, BIPOLAR LINEAR  | 4               | 0.00950  | 2.0                       | 0.0760   |
| IC, DIGITAL CMOS  | 37              | 0.00570  | 3.1                       | 0.6538   |
| IC, REGULATOR   | 2               | 0.00950  | 8.0                       | 0.1520   |
| INDUCTORS   | 1               | 0.00170  | 4.0                       | 0.0068   |
| OSCILLATOR, CRYSTAL   | 1               | 0.03200  | 2.1                       | 0.0672   |
| PCB   | 1               | 0.00004  | 2.0                       | 0.0001   |
| PROM, EE  | 3               | 0.01000  | 2.0                       | 0.0600   |
| RECTIFIER, POWER  | 3               | 0.00280  | 8.0                       | 0.0672   |
| RESISTOR NETWORK, FILM  | 30              | 0.00230  | 3.0                       | 0.2070   |
| RESISTOR, METAL FILM  | 62              | 0.00120  | 3.0                       | 0.2232   |
| RESISTOR, WW POWER  | 1               | 0.01400  | 3.0                       | 0.0420   |
| SOLDERED CONNECTIONS  | 574             | 0.00007  | 1.0                       | 0.0402   |
| SWITCH  | 1               | 0.00100  | 8.4                       | 0.0084   |
| THERMISTOR  | 1               | 0.06500  | 3.0                       | 0.1950   |
| TRANSFORMER, FLYBACK  | 1               | 0.02300  | 3.0                       | 0.0690   |
| TRANSIENT VOLTAGE SUPPRESSOR  | 2               | 0.00290  | 5.5                       | 0.0319   |
| TRANSISTORS, BIPOLAR  | 2               | 0.00015  | 5.5                       | 0.0017   |
|   |                 |  | <b>TOTAL</b>              | <b>5.2725</b>  |
|   |                 |  | <b>MTBF (HOURS)</b>       | <b>189663</b>  |
|   |                 |  | <b>MTBF (YRS)</b>         | <b>21.65</b>   |