

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

| Specification                  | Test/Inspection Condition   | Reference/Spec                        |
|--------------------------------|---|---------------------------------------|
| Operating Temperature          | -45° to +85° C  | Individual Model Data Sheet           |
| Storage Temperature            | -65° to 150°C   | Individual Model Data Sheet           |
| Moisture Sensitivity: Level 3  | Bake at 125°C for 24 hours. Soak at 30°C/60%RH for 192 hours,<br>Reflow 3 cycles at 260°C peak                        | J-STD-020D                            |
| Unbiased HAST                  | Temperature: 130°C, RH: 85%, Pressure: 33.3 psia<br>Duration: 96 hours  | JESD22-A118A, Test Condition A        |
| Temperature Cycling            | -65°C to +150°C, Dwell Time: 15 mins<br>500 cycles  | JESD22-A104E, Condition C             |
| HTSL                           | Temperature: 150°C<br>Duration: 1000 hours  | JESD22-A103E, Test Condition B        |
| HTOL                           | 1000 Hours at 125°C   | JESD22-A108                           |
| ESD HBM                        | Refer datasheet for classification  | JS-001                                |
| Vibration (Variable Frequency) | Sinusoidal vibration, 20 - 2000 Hz, 4 min sweeps, 16 min along<br>each of 3 axis, amplitude limits of 20g and 0.06 in | MIL-STD-883, Method 2007, Condition A |
| Drop Test                      | 1m drops onto concrete in final packed box in 6 orientations  | --                                    |
| Bend Test                      | 1mm deflection for 5 seconds.<br>Board thickness: 0.024", Span: 2.75"   | --                                    |
| Solderability                  | 10x magnification   | J-STD-002 Method B, B1                |



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| Resistance to Soldering Heat | Sn-Pb Eutectic Process: 240°C peak<br>Pb-Free Process: 260°C peak | J-STD-020      |