# Mini-Circuits

**Environmental Specifications    ENV01T1**

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 | -55° to 85°C<br>Ambient Environment | Individual Model Data Sheet |
| Storage Temperature | -55° to 100° C<br>Ambient Environment | Individual Model Data Sheet |
| Thermal Shock | -55° to 100°C, 100 cycles | MIL-STD-202, Method 107, Condition A-3, except +100°C |
| Vibration (High Frequency) | 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36) | MIL-STD-202, Method 204, Condition D |
| Mechanical Shock | 50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes | MIL-STD-202, Method 213, Condition A |
| Moisture Resistance | 10 cycles, 24 hours per cycle | MIL-STD-202, Method 106, Condition A, except 50°C and end point electrical test done within 12 hours |
| Solderability | 10X Magnification | J-STD-002, 95% Coverage |
| Resistance to Solder Heat | 260°C for 10 seconds | MIL-STD-202, Method 210, Condition B |
| Marking Resistance to Solvents | Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C;<br>distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C | MIL-STD-202, Method 215 |
| Terminal Strength | 4 1/2 Pound Pull | MIL-STD-202, Method 211, Condition A |

ENV01T1   Rev: OR          06/26/06      M105677    File: ENV01T1.pdf

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Page: 1

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| Specification | Test/Inspection Condition | Reference/Spec |
|---|---|---|
| Gross Leak | 125°C Bubble Test | MIL-STD-202, Method 112, Condition D |
| Barometric Pressure | 100,000 Feet | MIL-STD-202, Method 105, Condition D |

ENV01T1   Rev:  OR          06/26/06      M105677    File: ENV01T1.pdf

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Page: 2