

INSULATION RESISTANCE

MIL-STD-202F METHOD 302

Test Procedure: Parts are subjected to the working Voltage for 2 minutes. The insulation resistance is then measured for each part.

Equipment: MEGA-OHMMETER, Voltage Range: 50 to 500 Volts, Resistance Range: 50 kW to 20 tW

VIBRATION

MIL-STD-202F METHOD 201A

Test Procedure: Parts are subjected to a simple harmonic motion having an amplitude of 0.03 inch (0.06 inch maximum total excursion), frequency being varied uniformly between 10 Hz and 55 Hz. The test cycle consists in applying the Vibration from 10 to 55 Hertz and back to 10 Hertz in 1 minute. The cycle is repeated 120 times.

Equipment: All American Tool & Mfg. Co., Model: 10HA.

HUMIDITY

MIL-STD-202F METHOD 103B (STEADY STATE)

Test Procedure: Parts are conditioned in a dry oven @ $40^{\circ} \pm 5^{\circ}$ C for 24 hours and measurements are taken after this period. The parts are then placed in a chamber and subjected to a relative humidity of 90% @ $40^{\circ} \pm 2^{\circ}$ C for 96 hours. Measurements are taken after this period.

Chamber capability: Temperature from - 35°C to + 175°C and humidity from 35% to 95%.

THERMAL SHOCK

MIL-STD-202F METHOD 107D

Test Procedure: Measurements are taken before Thermal Shock, the parts are preheated for 30 minutes @ +85° C (185°F) and then placed in chamber and cooled for 30 minutes @ -35°C (-31°F). Cycle is repeated by five times and measurements are taken after this period.

The cooling time depends on the mass being cooled.

Chamber capability: Temperature from - 35° C to + 175° C