

# Appendix D: Screening Guides

## HRP 103: Capacitors Used in Multiplier Assemblies

The following screening for capacitors is a guide for a suggested procedure. It can be modified or adjusted to suit requirements. Capacitors would be screened prior to assembly into a hi-rel multiplier application.

1) Visual Inspection	Method 1032	Per Specification
2) High Temp Storage MIL-STD-750		48 hours @ TA = 150°C
3) Pre Electrical	Method 107	Capacitance Dissipation
4) Corona Test		≤ 100 Picocoulombs at rated voltage
5) Temp Cycle MIL-STD-202		5 Cycles, -55°C to +150°C 15 minutes at each extreme No dwell @ 25°C
6) Post Electrical		Capacitance Dissipation

## HRP 104: Resistors Used in Multiplier Assemblies

The following screening for resistors is a guide for a suggested procedure. It can be modified or adjusted to suit requirements. Resistors would be screened prior to assembly into a hi-rel multiplier application.

1) Pre Electrical	Method 107	Voltage = rated @25°C Measurement current, resistance
2) Temperature Cycle MIL-STD-202		5 Cycles, -55°C to +150°C 15 minutes at each extreme No dwell @ 25°C
3) Post Electrical		Voltage = rated @25°C Measurement current, resistance
4) Visual Inspection		Surface under microscope for cracks, chips, etc.