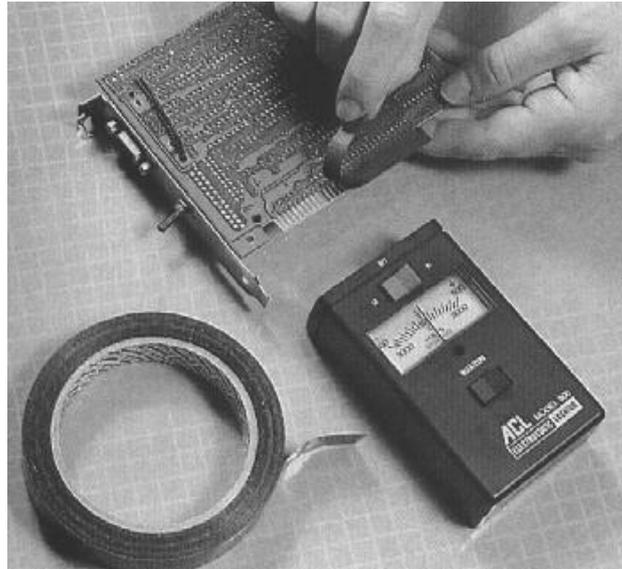




ESD Determination Methods for INT 702

Ref: TB2001-04
Date: September 2006
Version: 3.0

INTERTRONICS INT 702 Anti Static Polyimide Masking Tape is tested for the generation of static charges.



1) ESD During Roll Unwind

Procedure

A roll of INT 702 (25.4mm wide and 0.025mm film thickness) is mounted in a standard tape dispenser. The free end of the roll is held in a hand and the roll is unwound manually. The minimum unwind speed is 300mm/s. Using a 3M 703 static meter, the resulting static charge (if any) is measured.

Conditions

Temperature: 23°C +/- 2°C
Relative humidity: 50% +/- 2%
Distance from static meter: 50mm

Result

Maximum 5 Volts

2) ESD During Removal from a Stainless Steel Plate

Procedure

A section of INT 702 (25.4mm x 300mm) is applied to a clean stainless steel plate. The free end of the tape is then held and manually the tape is removed from the plate at a minimum speed of 300mm/s and at angles of between 90° and 180°. The resulting static charge (if any) on the plate is measured.

Conditions

Temperature: 23°C +/- 2°C

Relative humidity: 50% +/- 2%
Distance from static meter: 50mm

Result

Maximum 5 Volts

3) ESD During Removal from Gold Fingers of a PCB

Procedure

A section of INT 702 (25.4mm x 300mm) is applied to the gold fingers of a printed circuit board (pcb). The free end of the tape is then held and manually the tape is removed from the plate at a minimum speed of 300mm/s and at angles of between 90° and 180°. The resulting static charge (if any) on the plate is measured.

Conditions

Temperature: 23°C +/- 2°C
Relative humidity: 50% +/- 2%
Distance from static meter: 50mm

Result

Maximum 5 Volts

4) ESD During Removal from Centre of a PCB

Procedure

A section of INT 702 (25.4mm x 300mm) is applied to the centre area of a pcb. The free end of the tape is then held and manually the tape is removed from the plate at a minimum speed of 300mm/s and at angles of between 90° and 180°. The resulting static charge (if any) on the plate is measured.

Conditions

Temperature: 23°C +/- 2°C
Relative humidity: 50% +/- 2%
Distance from static meter: 50mm

Result

Maximum 5 Volts

INT 702 Anti-Static Polyamide Masking Tape

- Low charging
- Safe for use in an ESD Protected Area
- As effective as conventional Kapton-type masking tapes
- Patented

Applications include: Soldering, conformal coating



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