TESTING ANTISTATIC IC TUBES

and their electrical properties
Code L8....
FEC Part No 459 938

The standard used for testing antistatic tubes is the American National Standard ANSI/EIA-541-1988 Packaging material standards for ESD sensitive items.

Measuring static decay time

The test instrument is an ETS 405 D Static Decay Meter
Humidity control chamber

- The tubes are conditioned for 48 hours in a control chamber at 12% rH.
- A static decay test is carried out by putting a charge of 5000 volts on the tube. The time taken to decay to less than 500 volts is measured. Maximum decay time allowed is <2 sec.
- The same test is made three times each with a positive and negative charge.
- Decay results of each daily production are recorded and are available on request.

Measuring surface resistance

The test instrument is an ETS 806 surface resistivity meter. Conditioning is as above.

- The specification for surface resistance is $> 1x10^5$ and $<1x10^{12}$ Ohm.

Antistatic Solution Control

- The antistatic solution in which the extruded tubes are dipped is tested once a day for conductivity and alcohol content.

Production Control

- Hourly inspection
- Samples of each batch are kept on the shelf for six months.
- Every 24 hours a production sample is tested for decay time and surface resistance.

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