

DETERMINATION OF THE SURFACE RESISTANCE OF THE COATING OF ATX ADAPTER HOUSINGS SPECIFICATION AND TEST SETUP

Measuring equipment (complies with EN61340-4-1; EN61340-2-3; EN61340-4-5)

ESD measuring device: METRISO®2000 of the company Wolfgang Warmbier

- Measuring range voltages: 10V, 100V and 500V direct voltage
- Measuring range: Low resistance range: 0 to 10 K Ω High resistance range: 1 K Ω to 1.2 T Ω

ESD electrodes: Model 850 electrode from Electro-Tech Systems, Inc. USA.

- Conductive contact rubber ($R < 20$ ohms).
- Total resistance - electrode $R < 150$ Ohm
- \varnothing 63.5mm

ATX adapter housing coating specification.

The standard powder coating ensures a surface resistance of 15K Ω +/- 5 K Ω throughout.

Test setup for measuring the surface resistance of an adapter

Clean the electronics and the measurement surface from contaminants with a clean cloth before each measurement. The surface resistance described here is the resistance of the coating.

This is determined horizontally to the coating at a fixed distance of 300mm by means of two 2.27kg electrodes. determined. The measuring time of the test is approx. 5 seconds in the 100 volt test voltage range.

See also the adjacent picture of the measurement setup

