

PET 4000

ESD Verification Set 4GHz

■ **ESD generators** are calibrated according to the standard IEC/EN 61000-4-2 Ed 2.0. This new Calibration Set allows the user to take measurements conforming to the new 4GHz requirement in accordance with IEC 61000-4-2 Ed. 2.0.

Measurement of individual impulse parameters is performed using a special coaxial current shunt. This has a nominal impedance of 2 Ohms. Because ESD events can be generated as high as 120A, attenuators are required to reduce the impulse-voltage level so it can be displayed on commercial oscilloscopes. An oscilloscope with minimum 2GHz bandwidth is required to properly display the ESD impulse.

The Calibration Set has been developed as a tidy unit with the cable, attenuator and measuring target required to perform IEC/EN 61000-4-2 calibrations.

The ESD Calibration Set is complete with instructions and application sheet.



EFT/BURST VERIFICATION SET-UP

1. Connect the 20dB attenuator directly to the ESD target output. Normally, using one 20dB attenuator, up to 10kV can be calibrated. For voltage above 10kV, a second 20dB attenuator is required.
2. Using 1m cable provided, connect output of the attenuator to suitable oscilloscope
3. Connect the ESD ground return cable to the target plane according to standard.

The ESD target needs to be fitted into a metal plate having dimensions >1.2m x 1.2m. This can be one wall of a Faraday cage with the oscilloscope mounted inside

SET CONSISTING OF

- ESD target 2 Ohm / 4GHz
- One 20dB / 18GHz attenuator (additional 20dB attenuator optionally, ordering number 0780841)
- Coaxial cable 1 meter
- User manual & test certificate

BENEFITS

- According to IEC 61000-4-2 Ed. 2.0
- 4GHz bandwidth
- Up to 30kV / 120A ESD-impulse

TECHNICAL SPECIFICATIONS

Bandwidth	4GHz
Input resistance	2 Ohm
Coaxial cable length	1m
Net weight	approx. 0.5 kg

Max. pulse amplitude	30kV / 120A
Output voltage into 50 Ohm load (DSO input)	0.2V/A using one 20dB atten. 0.02V/A using two 20dB atten.
Dimensions	approx. 70 x 30mm

OTHER INFORMATION: ESD VERIFICATION SET Art. No. 4700480

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