

# EFT Verification Set

EFT/Burst generators are verified according to the standard IEC/EN 61000-4-4 Edition 2. Measurements of individual impulse parameters are performed using a termination to match the EFT/Burst generator output impedance (50Ω) and a voltage divider to reduce the impulse level so it can be displayed on commercial oscilloscopes. The 50Ω attenuator, **PAT 50** is to match the new amendment 2 and edition 2 requirements. An oscilloscope with minimum 400MHz band-width is required to properly display the EFT impulse.

The PAT attenuator series has been developed in response to the IEC 61000-4-4 amendment 2 from 2001 which extends the verification requirement to also include impulse measurement using a 1kΩ load.

The **PAT 1000** meets the amendment 2 and edition 2 requirements of 1000Ω in parallel with 6pF.



## EFT/Burst Verification Set-up

To verify an EFT/Burst generator proceed as below:

- (1) connect the attenuator input directly to the EFT/Burst generator High Voltage output
- (2) using 1m cable provided, connect output of the attenuator to a suitable oscilloscope
- (3) set the oscilloscope input to 50Ω.

If the EFT/Burst impulse is to be verified at the output of a CDN, a suitable adaptor is required. Both the generator and the oscilloscope must be connected to the ground plane properly.

## Set consisting of

- PAT 50 50Ω load / attenuator 54dB
- PAT 1000 1kΩ load / attenuator 60dB
- Coaxial cable 1 meter
- User manual & Test certificate
- Functional case

## ■ Technical Specifications

Divider Ratio PAT 50	54dB
Divider Ratio PAT 1000	60dB
Test Load Impedance	50Ω ± 2%
Test Load Impedance	1000Ω ± 2% // ≤ 6pF
Net weight	1.0 kg

BNC Cable length	1m
Max. Impulse voltage	5kV
Input connection	SHV
Output connections	50Ω BNC connector
Dimensions (W x H x D)	260 x 160 x 62mm

## ■ Ordering Information

EFT VERIFICATION SET Art. No. 249995

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