

EFT/BURST VERIFICATION SET

Datasheet



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General Description

EFT/Burst generators are verified according to the standard IEC/EN 61000-4-4 Edition 3. Measurements of individual impulse parameters are performed using a termination to match the EFT/Burst generator output impedance (50 Ohm) and a voltage divider to reduce the impulse level so it can be displayed on commercial oscilloscopes. The 50 Ohm attenuator, PAT 50 is to match the new edition 3 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 1kOhm load. The PAT 1000 meets the amendment 2 and edition 2 requirements of 1000 Ohm in parallel with 6pF.

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 50 Ω .

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.

Scope of Supply

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

Technical Data

Block 1	
Divider Ratio PAT 50A	54 db
Divider Ratio PAT 1000	60 db
Test Load Impedance	50Ω ± 2%
Test Load Impedance	1000Ω ± 2% // ≤ 6pF
BNC Cable length	1m
Max. Impulse voltage	5kV
Input connection	SHV
Output connections	50Ω BNC connector
Environmental, Mechanical and Power Supply	
Dimensions (W x D x H)	260 x 160 x 62 mm
Weight	1 kg
Applicable Standards	
General	
CE conformity	

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