

EFT/Burst Verification Set

Set with attenuators and coaxial cable

IEC / EN 61000-4-4

- For EMC tests according IEC / EN 61000-4-4
- For the verification of Burst signals
- Including
PAT 50A: 50 Ω
PAT 1000: 1000 Ω
and BNC cable in functional case

**For AXOS 5 and AXOS 8
devices from Haefely.**

 **HAEFELY**

Overview

EFT/ 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 400 MHz 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 6 pF.

Key facts

- If attenuators are used, do not operate the coupling network with voltage during the test.
- Verification of the burst signal on the burst generator is carried out with a measuring impedance of 50 Ω or 1000 Ω
- Measuring bandwidth of at least 400 MHz required



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Technical data

EFT/Burst Verification Set			
Divider Ratio		Input connection	SHV
PAT 50A	54 dB	Output connection	50 Ω BNC connector
PAT 1000	60 dB	Dimeansions (W x D x H)	260 x 160 x 62 mm
Test load impedances	50 Ω ± 2% 1000 Ω ± 2% // ≤ 6 pF	Weight	1 kg
BNC cable length max.	1 m		
Impulse voltage	5 kV		

Options

No. 2490400	AXOS 5	Compact
No. 2490800	AXOS 8	Compact
No. 2495491	PAT 50A	Attenuator 54 dB, 50 Ω
No. 2495441	PAT 1000	Attenuator 60 dB, 1000 Ω

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 1 m 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 delivery

EFT_Burst Verification Set (No. 2499951), PAT 50A + PAT 1000, incl. coaxial cable 1 m in functional case

Test certificate

User manual

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 062311

