

SFT 450-1 / 450-2 / 450-Set

Attenuators

IEC / EN 61000-4-4

- For EMC tests according to IEC / EN 61000-4-4
- Available in the following variants:
 - SFT 450-1:** (50 Ω)
 - SFT 450-2:** (1000 Ω)
 - SFT 450-Set:** (50 Ω + 1000 Ω)
- Burst verification (50 Ω + 1000 Ω)
- Verification of the capacitive coupling pliers burst (50 Ω)



Available as a set
SFT 450 set (50 Ω + 1000 Ω)

Overview

Burst generators and capacitive coupling pliers must be verified according to the current standard IEC/EN 61000-4-4. The pulse parameters of the burst generator are measured

- at the 50 Ohm high voltage output and
- at the output of the coupling network and
- at the output of the calibration set of capacitive coupling clamp

When using attenuators at the output of the coupling network, it is essential to ensure that the coupling network is not operated with voltage during the test.

The verification of the burst signal at the burst generator is done with a measuring impedance of 50 Ω or 1000 Ω . The measured voltage corresponds to a divider ratio X - see table (Technical Data). A measurement bandwidth of at least 400 MHz is required. The input impedance of the oscilloscope must be set to 50 Ohm

Key facts

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



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Technical data

Attenuators

	SFT 450-1	SFT 450-2
Attenuator	54 dB (corresponds to divider 500:1 to 50 Ohm)	60 dB (corresponds to divider 1000:1 at 50 Ohm) with no source impedance
Input impedance	50 Ohm +/-2 %	1000 Ohm +/-2 %
Max. pulse voltage	5 kV at pulse 5/50 ns	5 kV at pulse 5/50 ns
Max. Energy	250 pulses per second	250 pulses per second
Connection Input	Fisher HV	Fisher HV
Connection Output	BNC connector	BNC connector
Operating temperature	0 - 40 °C	0 – 40 °C
Relative air humidity	0 - 60 %	0 - 60 %
Dimension (L x W x H)	120 x 25 x 25 mm	155 x 25 x 25 mm
Weight	130 g	170 g

Included in delivery

Test certificate

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. 032008

