

Attenuators

SFT 450-1 (50 Ω)

SFT 450-2 (1000 Ω)



- ◆ Burst – Verification (50Ω + 1000Ω)
- ◆ Verification of capacitive coupling clamp Burst (50Ω)
- ◆ IEC 61000-4-4, 2012

Introduction

Burst-generators and capacitive coupling clamps must be verified according the current standard IEC/EN 61000-4-4 Ed.3, 2012. The measurement of the pulse parameter of the burst generator should be performed

- at the high voltage output 50 ohm and
- at the output of the coupling network and
- on the output of the calibration set of the capacity coupling clamp

When using the attenuator at the output of the coupling network, it's essential to ensure that no voltage is connected to the coupling network.

The verification of the burst signal at the burst generator is performed with a measurement impedance of 50 Ω and 1000 Ω. The measured voltage is conforming to a divider ratio X – see table below. A measurement bandwidth of at least 400 MHz is required; the input impedance of the oscilloscope should be set to 50 ohm.

Technical data **SFT 450-Set (50 Ohm + 1000 Ohm)***

Bestellbezeichnung	SFT 450-1 50 Ohm	SFT 450-2 1000 Ohm
Attenuator	54 dB (conform divider 500:1 at 50 Ohm)	60 dB (conform divider 1000:1 at 50 Ohm) at low ohm source impedance
Input impedance	50 Ohm +/-2%	1000 Ohm +/-2%
Max. pulse voltage	5 kV at pulse 5/50ns	5 kV at pulse 5/50ns
Max. energy	250 pulse per second	250 pulse per second
Connection input	Fischer HV	Fischer HV
Connection output	BNC female connector	BNC female connector
Working temperature	0 - 40° Celsius	0 - 40° Celsius
Relative humidity	0 - 60%	0 - 60%
Dimension	120 x 25 x 25 mm	155 x 25 x 25 mm
Weight	130 g	170 g
Scope of delivery:	incl. test certificate	incl. test certificate

* **SFT 450 - Set** includes SFT 450-1 and SFT 450-2