

2 Ohm ESD-Target

1 Introduction

The TBESDT1 ESD-Target is a current sensing transducer to verify ESD-Simulators. It is used to take measurements compliant with IEC 61000-4-2 up to 4 GHz.



Picture 1: TBESDT1 ESD-Target

2 Specification

Compliance:	IEC 61000-4-2
Resistance:	$2.08 \Omega \pm 1\%$
Transfer impedance:	2 V/A
	0.2 V/A with 20 dB attenuator
Frequency range:	DC – 4 GHz
S21 flatness	$< \pm 0.5 \text{ dB}$ up to 1 GHz
	$< \pm 1.2 \text{ dB}$ up to 4 GHz
Max. pulse amplitude:	$\pm 30 \text{ kV}$
Deliverables:	TBESDT1 ESD-Target
	20 dB attenuator
	N-Male to SMA-Male coaxial cable, 100 cm, RM141
	SMA-Female to BNC-Male coaxial adapter
	Aluminium carrying case
	Factory calibration certificate, NIST traceable
ESD-Target weight:	0,5 kg
ESD-Target dimensions:	D70 mm x H40 mm
Case weight:	2.1 kg
Case dimensions:	340 mm x 260 mm x 110 mm

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3 ESD Target Insertion loss

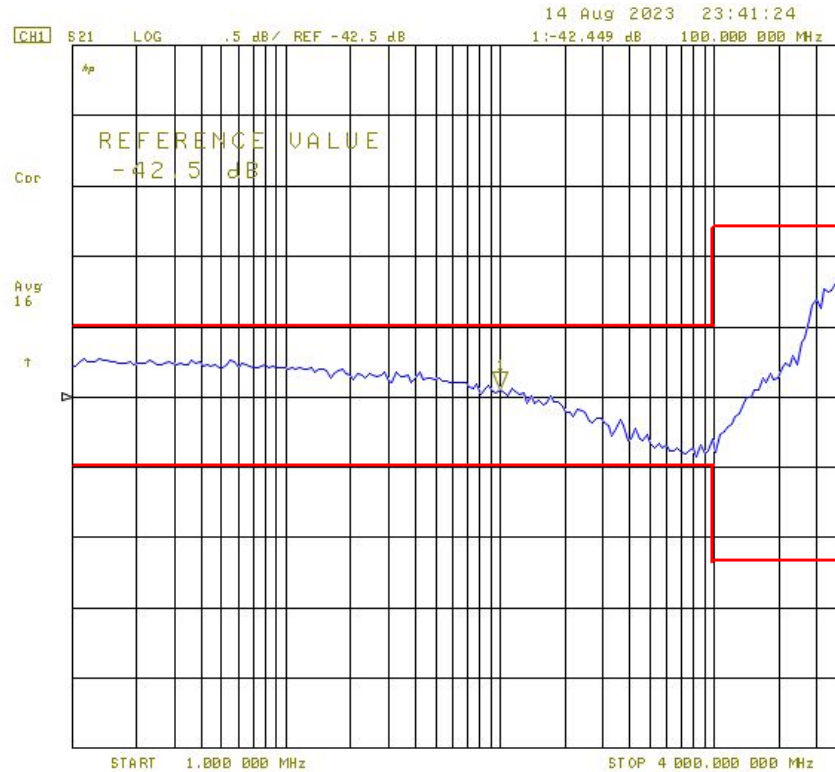


Figure 1: typical insertion loss; TBESDT1 ESD target + 20 dB attenuator + coaxial cable

4 Ordering Information

Part Number	Description
TBESDT1	2 Ohm ESD-Target; 20 dB attenuator; N-M to SMA-M coaxial cable, 100 cm, RM141; SMA-Female to BNC-Male coaxial adapter; Aluminium carrying case, factory calibration certificate

5 Optional Accessories

Part Number	Description
TBESDTA1	ESD-Target adapter line for the verification of ESD-Targets; wooden box, factory calibration certificate

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6 History

Version	Date	Author	Changes
V 1.0	15.8.2023	Mayerhofer	Creation
V 1.1	31.1.2024	Mayerhofer	Updated chapter 4

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