



TEKBOX DIGITAL SOLUTIONS TBESDT2 ESD Target Instructions

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V1.0
TBESDT2



1 Ohm ESD-Target

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Introduction

The TBESDT2 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: TBESDT2 ESD-Target

Specification

Compliance:	IEC 61000-4-2
Resistance:	$1 \Omega \pm 1\%$
Transfer impedance:	1 V/A 0.1 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:	TBESDT2 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

ESD Target Insertion loss

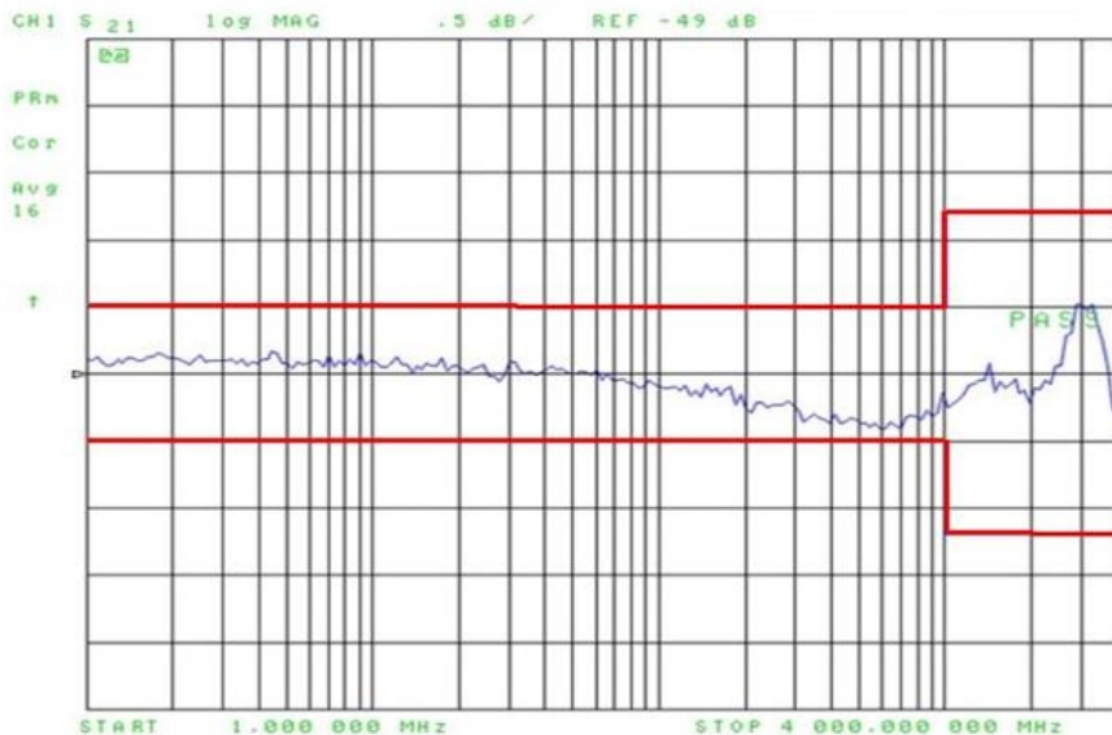


Figure 1: typical insertion loss; TBESDT2 ESD target + 20 dB attenuator + coaxial cable

Ordering Information

Part Number	Description
TBESDT2	1 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

Optional Accessories

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

History

Version	Date	Author	Changes
V 1.0	31.1.2024	Mayerhofer	Creation

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Documents / Resources

TBESDT2

1 One ESD Target



1 Introduction





Figure 1 TBESDT2 ESD Target

2 Specifications

Model: TBESDT2

Part Number: TBESDT2

Material: FR-4

Dimensions: 100mm x 100mm

Weight: 10g

Operating Temperature: -40°C to 125°C

Storage Temperature: -55°C to 150°C

ESD Protection: 1000V

ESD Test Method: IEC 61000-4-2

ESD Test Level: 10kV

ESD Test Result: Pass

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TBESDT2 ESD Target, TBESDT2, ESD Target, Target

References

-  [Tekbox Digital Solutions |](#)
- [User Manual](#)

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