

3.5mm / SMA Male VNA calibration kit, 6 GHz

1 Introduction

The TBVC-SM6 is a 3.5mm/SMA compatible calibration kit for Vector Network Analyzers. It contains an Open, Short, Load and a Through. It is used for OSLT calibration in the frequency range DC-6GHz.



Picture 1: TBVC-SM6

2 Specification

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3.5mm-Male Z = 50 Ω

Return loss > 30 dB

Short:

3.5mm-Male $Z = 50 \Omega$

Delay = 46.544 psLoss = $6.18 \text{ G}\Omega/\text{s}$

 $L_0 = 1.84 \text{ pH}$

 $L_1 = -3.0297e-21 H/Hz$

 $L_2 = -3.123e-31 \text{ H/Hz}^2$

 $L_3 = 5.38e-42 \text{ H/Hz}^3$

THROUGH:

3.5mm-Male

 $Z = 50 \Omega$

Loss = $6.3 \,\mathrm{G}\Omega/\mathrm{s}$

Delay = 75.345 ps

Open:

3.5mm-Male

 $Z = 50 \Omega$

Delay = 46.485 ps

Loss = $8.46 \,\mathrm{G}\Omega/\mathrm{s}$

C0 = -6.03 fF

C1 = 5.16e-25 F/Hz

 $C2 = 4.13e-35 F/Hz^2$

 $C3 = 3.36e-45 F/Hz^3$

Frequency range: DC - 6 GHz

Box dimensions: 145 mm x 145 mm x 55 mm

Weight: 340 g

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The calibration kit file is pre-installed with our TBVNA-6000 software and can be downloaded separately from our website.

3 Ordering Information

Part Number	Description	
TBVC-SM6	3.5mm / SMA - Male OSLT VNA calibration kit, 6 GHz	

4 History

Version	Date	Author	Changes
V 1.0	2.5.2025	Mayerhofer	Creation
V1.1	21.7.2025	Mayerhofer	Typo correction 2,5mm->3.5mm