

N-Female VNA calibration kit, 6 GHz

1 Introduction

The TBVC-NF6 is a calibration kit for Vector Network Analyzers. It contains an Open, a Short, a Load and a Through. It is used for OSLT calibration in the frequency range DC - 6 GHz.



Picture 1: TBVC-NF6

2 Specification

Load:

N-Female
 $Z = 50 \, \Omega$
 Return loss > 35 dB

THROUGH:

N-Female
 $Z = 50 \, \Omega$
 Loss = 2 GΩ/s
 Delay = 80.375 ps

Short:

N-Female
 $Z = 50 \, \Omega$
 Delay = 0 ps
 Loss = 2.88 GΩ/s
 $L_0 = 1.19 \, \text{pH}$
 $L_1 = -8.9\text{e-}22 \, \text{H/Hz}$
 $L_2 = 1.4\text{e-}31 \, \text{H/Hz}^2$
 $L_3 = 1.6\text{e-}42 \, \text{H/Hz}^3$

Open:

N-Female
 $Z = 50 \, \Omega$
 Delay = 6.810 ps
 Loss = 979.28 GΩ/s
 $C_0 = 4.96 \, \text{fF}$
 $C_1 = -2.274\text{e-}24 \, \text{fF/Hz}$
 $C_2 = 8.78\text{e-}35 \, \text{fF/Hz}^2$
 $C_3 = 5.54\text{e-}45 \, \text{fF/Hz}^3$

Frequency range: DC – 6 GHz
 Box dimensions: 145 mm x 145 mm x 55 mm
 Weight: 475 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-NF6	N-female OSLT VNA calibration kit, 6 GHz

4 History

Version	Date	Author	Changes
V 1.0	2.5.2025	Mayerhofer	Creation