

N1.2 Calibration Kit

The N1.2 type N calibration kit is used to calibrate vector network analyzers up to 1.5 GHz for measurements of components with 50 Ω type N connectors.

Electrical Data

Impedance	50Ω
Frequency range	DC to 1.5 GHz

Electrical Specifications*

Load	DC - 1.5 GHz
Return loss	≥ 36 dB

Open	DC - 1.5 GHz
Phase Deviation	± 1.5°

Short	DC - 1.5 GHz
Phase Deviation	± 1.0°

Thru	DC - 1.5 GHz
Offset Loss	2.7 GΩ/s
Electrical Delay	69.1 ps
Return Loss	≥ 36 dB

Environmental Data

Operating temperature	15°C to 35°C
Storage temperature	-40°C to +75°C

*Phase deviation: relative tolerance from standard phase



Coefficients

	Male	Female	
Open	$C_0 = 119.1 \times 10^{-15} \text{ F}$	$C_0 = 62.14 \times 10^{-15} \text{ F}$	
	$C_1 = -37.0 \times 10^{-27} \text{ F/Hz}$	$C_1 = -143.07 \times 10^{-27} \text{ F/Hz}$	
	$C_2 = 26.3 \times 10^{-36} \text{ F/Hz}^2$	$C_2 = 82.92 \times 10^{-36} \text{ F/Hz}^2$	
	$C_3 = 5.5 \times 10^{-45} \text{ F/Hz}^3$	$C_3 = 0.76 \times 10^{-45} \text{ F/Hz}^3$	
Offset delay	-13.68 ps	17.4 ps	
Offset loss	700 MΩ/s	700 MΩ/s	
Short	Offset delay	0.093 ps	17.82 ps
	Offset loss	700 MΩ/s	700 MΩ/s
	Offset delay	69.1 ps	
Thru	Offset loss	2.7 GΩ/s	

