

3-in-1 3.5mm Female Calibration Kit

DC- 9GHz CALIBRATION KIT

REV 1.0.0

APPLICATIONS

- VNA Calibration
- SOLT Calibration
- Test and Measurement
- Precision Calibration

FEATURES

- DC - 9GHz
- Integrated Through
- 3.5 mm (female) connectors
- Repeatable measurements
- Precision machined
- Excellent RF performance

3-in-1 3.5mm Female Calibration Kit

This compact 3-in-1 calibration kit with 3.5 mm (female) connectors and integrated through is intended for use with a broad range of vector network analyzers (VNA).

With this cal kit, you can make error corrected measurements of devices with 3.5 mm and SMA connectors from DC to 9.0 GHz.

The EP-CK-35MM-T calibration kit includes: short, open, load and through calibration standards.



MODEL NUMBER	EP - CK - 35MM
Frequency Range:	DC - 9 GHz
Nominal Impedance:	50 Ω
Connector Type:	3.5 mm (female)
Load (Return Loss):	≥ 38 dB
Phase Accuracy (OPEN and SHORT):	$\leq 1.5^\circ$
Material:	Stainless Steel

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3-in1 3.5mm Female Calibration Kit Definitions

Type	Cal. Coefficient	
OPEN	C0	$49.43 \times 10^{-15} \text{F}$
	C1	$-310.13 \times 10^{-27} \text{F/Hz}$
	C2	$23.17 \times 10^{-36} \text{F/Hz}^2$
	C3	$-0.16 \times 10^{-45} \text{F/Hz}^3$
	Offset delay	29.243 ps
	Offset Loss	2.2 G Ω /s
SHORT	L0	$2.0765 \times 10^{-12} \text{H}$
	L1	$-108.54 \times 10^{-24} \text{H/Hz}$
	L2	$2.1705 \times 10^{-33} \text{H/Hz}^2$
	L3	$-0.01 \times 10^{-42} \text{H/Hz}^3$
	Offset delay	31.088 ps
	Offset Loss	2.36 G Ω /s

Note:

For the broadband load set: delay to 0 sec, loss to 0, and Zo to 50 Ohms.

Through electrical delay: 107.9 psec.

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3-in-1 3.5mm Female Calibration Kit Definitions: Keysight FieldFox Analyzer

Edit Kit ×

Cal Kit Name Cal Kit Description

Connectors Standards **SOLT** TRL

ID	Standard	Description
1	Short -F-	3.5 mm female short
2	Open -F-	3.5 mm female open
3	Broadband Load -F-	3.5 mm (50) Female broadband load
4	Thru M-M	Define thru M-M

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Short Standard

Standard ID Label

Description

Connector

Port 1

Frequency Range

Min MHz Max MHz

Delay Characteristics

Delay pSec Loss Gohms/s

Z0 ohms

Short Characteristics

L0 H(e-12) L2 H(e-33)/Hz^2

L1 H(e-24)/Hz L3 H(e-42)/Hz^3

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Open Standard



Standard ID 2

Label Open -F-

Description 3.5 mm female open

Connector

Port 1 3.5 mm female

Frequency Range

Min 0

MHz

Max 9000

MHz

Delay Characteristics

Delay 29.243

pSec

Loss 2.2

Gohms/s

Z0 50

ohms

Open Characteristics

C0 49.43

F(e-15)

C2 23.17

F(e-36)/Hz²

C1 -310.13

F(e-27)/Hz

C3 -0.16

F(e-45)/Hz³

OK

Cancel

Help

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Load Standard

Standard ID Label

Description

Connector

Port 1

Frequency Range

Min MHz Max MHz

Delay Characteristics

Delay pSec Loss Gohms/s

Z0 ohms

Load Type

- Fixed Load
- Sliding Load
- Offset Load
- Arbitrary Impedance