



**Transferline Microwave**  
Engineer's RF Partner

# Calibration Kits

## Catalog



# Product Overview

## Transferline Microwave's Calibration Kits

Designed for vector network analyzer systems operating over the frequency range of DC to 67 GHz. The opens, shorts and loads in these kits are optimized to provide accurate and traceable calibrations over the specified frequency range. Our calibration kits will help you to make the calibration of your equipment fast, easy, and accurate.

## Main Features

- ◆ Coaxial frequency range: DC to 67 GHz
- ◆ Waveguide frequency range: 18 GHz to 1100 GHz
- ◆ Support mainstream vector network analyzer systems, such as keysight PNA and ENA series, R&S ZNA and ZNB series, and Anritsu Vectorstar series, and Copper Mountain CMT series vector network analyzer etc.
- ◆ Characterize the systematic errors of network analyzers in the multiple interface: N-type, 3.5mm, 2.4mm, 1.85mm and various waveguide standard
- ◆ Torque wrenches for properly connecting standards
- ◆ Adapters to change the sex of the test port



# Calibration Kits

## Coaxial Calibration Kits

Model	Frequency range (GHz)	Connector	Open(°)	Short(°)	Load(SWR)	Adapter (SWR)	Configuration	Remarks
CK204	DC to 3	N(75Ω)	$\leq \pm 1.6^\circ$	$\leq \pm 1.2^\circ$	<1.04	<1.04	14 units (box-packed)	/
CK205	DC to 3	N	$\leq \pm 1.0^\circ$	$\leq \pm 1.0^\circ$	<1.02	<1.06	10 units (box-packed)	/
CK207	DC to 3	N	$\leq \pm 1.0^\circ$	$\leq \pm 1.0^\circ$	<1.02	/	T-TYPE(M)	OSL
CK207A	DC to 3	N	$\leq \pm 1.0^\circ$	$\leq \pm 1.0^\circ$	<1.02	/	T-TYPE(F)	OSL
CK104	DC to 6	N	$\leq \pm 1.0^\circ$	$\leq \pm 1.0^\circ$	<1.023	<1.029	10 units (box-packed)	/
CK208	DC to 7.5	7/16 or L29	$\leq \pm 3.0^\circ$	$\leq \pm 2.5^\circ$	<1.055 (DC to 4GHz) <1.065 (4 to 7.5GHz)	<1.065	9 units (box-packed)	/
CK201	DC to 9	N	$\leq \pm 1.2^\circ$	$\leq \pm 1.0^\circ$	<1.029	<1.052	10 units (box-packed)	/
CK201A	DC to 9	N	$\leq \pm 1.2^\circ$	$\leq \pm 1.0^\circ$	<1.029	/	T-type(M)	/
CK201B	DC to 9	N	$\leq \pm 1.2^\circ$	$\leq \pm 1.0^\circ$	<1.029	/	T-type (F)	/
CK201AE	DC to 9	N	$\leq \pm 1.2^\circ$	$\leq \pm 1.0^\circ$	<1.029	/	T-type (M)	/
CK201BE	DC to 9	N	$\leq \pm 1.2^\circ$	$\leq \pm 1.0^\circ$	<1.029	/	T-type (F)	/
CK101	DC to 18	N	$\leq \pm 1.5^\circ$	$\leq \pm 1.5^\circ$	<1.055	<1.083	14 units (box-packed)	/
CK101A	DC to 18	N	$\leq \pm 1.5^\circ$	$\leq \pm 1.0^\circ$	<1.055	/	T-type (M)	OSL
CK101B	DC to 18	N	$\leq \pm 1.5^\circ$	$\leq \pm 1.0^\circ$	<1.055	/	T-type (F)	OSL
CK111	DC to 18	7mm	$\leq \pm 0.5^\circ$	$\leq \pm 0.5^\circ$	<1.04	/	4 units (box-packed)	/
CK101MA	0.05 to 18	N	$\leq \pm 3^\circ$	$\leq \pm 2.5^\circ$	<1.08	<1.1	Y-type(M)	TOSL
CK101MB	0.05 to 18	N	$\leq \pm 3^\circ$	$\leq \pm 2.5^\circ$	<1.08	<1.1	Y-type (F)	TOSL
CK121	DC to 26.5	3.5mm	$\leq \pm 1.5^\circ$	$\leq \pm 1.5^\circ$	<1.055	<1.106	10 units (box-packed)	/
CK121MA	DC to 26.5	3.5mm	$\leq \pm 2^\circ$	$\leq \pm 2^\circ$	<1.065	<1.12	Y-type (M)	TOSL
CK121MB	DC to 26.5	3.5mm	$\leq \pm 2^\circ$	$\leq \pm 2^\circ$	<1.065	<1.12	Y-type (F)	TOSL
CK121MC	DC to 26.5	3.5mm	$\leq \pm 2^\circ$	$\leq \pm 2^\circ$	<1.065	<1.12	Y-type (M)	TOSL
CK121MD	DC to 26.5	3.5mm	$\leq \pm 2^\circ$	$\leq \pm 2^\circ$	<1.065	<1.12	Y-type (F)	TOSL
CK206MA	DC to 40	2.92mm	$\leq \pm 6.0^\circ$	$\leq \pm 4.5^\circ$	<1.17	<1.15	Y-type (M)	TOSL
CK206MB	DC to 40	2.92mm	$\leq \pm 6.0^\circ$	$\leq \pm 4.5^\circ$	<1.17	<1.15	Y-type (F)	TOSL
CK206MC	DC to 40	2.92mm	$\leq \pm 6.0^\circ$	$\leq \pm 4.5^\circ$	<1.17	<1.15	T-type (M)	TOSL
CK206MD	DC to 40	2.92mm	$\leq \pm 6.0^\circ$	$\leq \pm 4.5^\circ$	<1.17	<1.15	T-type (F)	TOSL
CK209FB	DC to 40	2.92mm	$\leq \pm 1.5^\circ$	$\leq \pm 2.0^\circ$	<1.12	<1.12	10 units (box-packed)	/
CK123	DC to 40	2.4mm	$\leq \pm 1.5^\circ$	$\leq \pm 1.5^\circ$	<1.105	<1.119	10 units (box-packed)	/
CK123A	DC to 50	2.4mm	$\leq \pm 2.25^\circ$	$\leq \pm 2.0^\circ$	<1.106	<1.222	10 units (box-packed)	/
CK128	DC to 67	1.85mm	$\leq \pm 2.0^\circ$	$\leq \pm 2.0^\circ$	<1.15	<1.25	10 units (box-packed)	/
CK209LA	DC to 67	1.85mm	$\leq \pm 5.0^\circ$	$\leq \pm 4.0^\circ$	<1.07 (35GHz)	<1.25	17 units (box-packed)	/
CK209LB	DC to 67	1.85mm	$\leq \pm 5.0^\circ$	$\leq \pm 4.0^\circ$	<1.15 (67GHz)	<1.25	11 units (box-packed)	/

Notes: OSL is the abbreviation of Open, Short and Load circuit, TOSL is the abbreviation of Through, Open, Short and Load circuit.

## Waveguide Calibration Kits

Model	Frequency range (GHz)	Connector	Fixed Load(SWR)	Straight Waveguide (SWR)	Configuration	Remarks
WK119	18 to 26.5	WR42	<1.03	<1.20	8 units (box-packed)	/
WK101	26.5 to 40	WR28	<1.03	<1.20	8 units (box-packed)	/
WK157	33 to 50	WR22	<1.06	<1.06	8 units (box-packed)	/
WK121K	40 to 60	WR19	<1.06	<1.06	6 units (box-packed)	/
WK156	50 to 75	WR15	<1.06	<1.06	6 units (box-packed)	/
WK155N	60 to 90	WR12	<1.06	<1.06	8 units (box-packed)	/
WK141	75 to 110	WR10	<1.065	<1.065	6 units (box-packed)	/
WK155Q	90 to 140	WR8	<1.06	<1.06	8 units (box-packed)	/
WK155	110 to 170	WR7	<1.06	<1.06	6 units (box-packed)	/
WK301	170 to 220	WR5	<1.085	<1.16	8 units (box-packed)	/
WK155S	170 to 260	WR4	<1.10	<1.16	8 units (box-packed)	/
WK302	220 to 325	WR3	<1.10	<1.17	8 units (box-packed)	/
WK155T	260 to 400	WR2.8	<1.12	<1.12	8 units (box-packed)	/
WK301T	325 to 500	WR2.2	≤1.12	≤1.18	8 units (box-packed)	/
WK155U	400 to 600	WR1.9	≤1.17	≤1.25	8 units (box-packed)	/
WK155UA	500 to 750	WR1.5	≤1.25	≤1.40	8 units (box-packed)	/
WK155V	750 to 1100	WR1.0	≤1.32	≤1.44	8 units (box-packed)	/

Notes: The specifications are based on the product datasheet. If there is any change, Please understand we are unable to notify you in time.