

# 2.92mm K Type DC-40GHz Precision Calibration Kit

**Model: RCAL40K**



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**Key Features**

- DC to 40GHz frequency range.
- Calibration standards to perform full two-port calibration.
- Adapters and torque wrench included.
- COC Included.

**Description**

RF-Lambda's RCAL40K mechanical calibration kit contains precision standard devices to calibrate network analyzers in the 2.92mm K Type interface. This kit also contains adapters to change the sex of the test port, and a torque wrench to ensure a repeatable reliable connection.

**Environmental Specifications**

Parameter	Description
Operational Temperature	23°C±3°C
Storage Temperature	-20°C~+70°C

SHORT Male		OPEN Male		LOAD Male	
L0 = -180.343 x 10 <sup>-12</sup> H	C0 = 9.814 x 10 <sup>-16</sup> F	GHz	VSWR	DC - 4	1.035
L1 = -2378.88 x 10 <sup>-24</sup> H/Hz	C1 = -38.5444 x 10 <sup>-27</sup> F/Hz	4 - 20	1.085	20 - 26.5	1.12
L2 = 93.1882 x 10 <sup>-36</sup> H/Hz <sup>2</sup>	C2 = 5.1935 x 10 <sup>-38</sup> F/Hz <sup>2</sup>	26.5 - 40	1.17		
L3 = -2.5813 x 10 <sup>-42</sup> H/Hz <sup>3</sup>	C3 = -0.0172 x 10 <sup>-45</sup> F/Hz <sup>3</sup>				
DELAY = 30.3937 ps	DELAY = 25.1481 ps				
LOSS = 4.6888 GΩ / s	LOSS = 4.9828 GΩ / s				

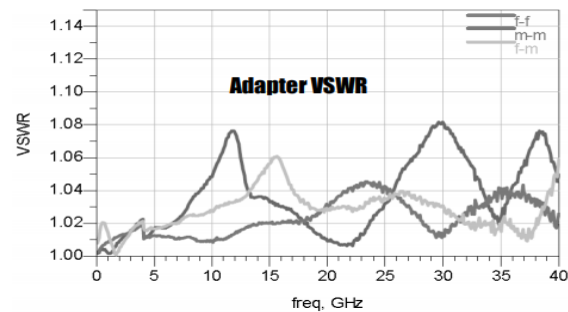
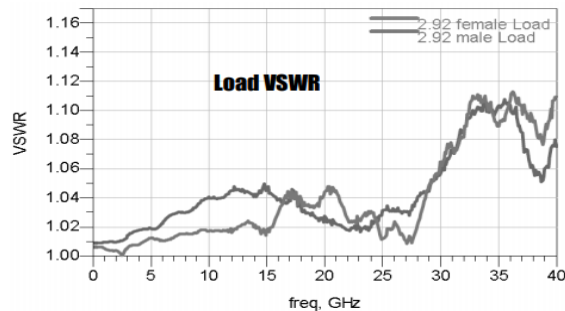
SHORT Female		OPEN Female		LOAD Female	
L0 = -190.281 x 10 <sup>-12</sup> H	C0 = 7.177 x 10 <sup>-16</sup> F	GHz	VSWR	DC - 4	1.035
L1 = 374.812 x 10 <sup>-24</sup> H/Hz	C1 = 450.019 x 10 <sup>-27</sup> F/Hz	4 - 20	1.085	20 - 26.5	1.12
L2 = -62.8088 x 10 <sup>-36</sup> H/Hz <sup>2</sup>	C2 = -12.3889 x 10 <sup>-38</sup> F/Hz <sup>2</sup>	26.5 - 40	1.17		
L3 = 0.0537 x 10 <sup>-42</sup> H/Hz <sup>3</sup>	C3 = 0.1442 x 10 <sup>-45</sup> F/Hz <sup>3</sup>				
DELAY = 30.3937 ps	DELAY = 25.1481 ps				
LOSS = 3.9889 GΩ / s	LOSS = 3.8817 GΩ / s				

**Specifications**

Description	PN: RCAL40K			
	2.92mm Precision Calibration Kit			
Parameters	Min.	Typ.	Max.	Units
Frequency Range	DC		40	GHz
Impedance	50			Ω

**Calibration Kit Includes**

PN	Description	Spec.	Qty
MO	Male Open	Phase Deviation ≤6.0°	1
FO	Female Open		1
MS	Male Short	Phase Deviation ≤4.5°	1
FS	Female Short		1
ML	Male Load	VSWR≤1.17 max	1
FL	Female Load		1
FF	Female to Female Adapter	VSWR≤1.15 max	1
MM	Male to Male Adapter		1
MF	Male to Female Adapter		1
WR	3.5mm Torque Wrench	8 in / lb.	1
BX	Kit Box	Wood	1



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