

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

**Model: RCAL40K**



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Registered Company



**2.92mm K Type DC-40GHz VNA Precision Calibration Kit**

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**Key Features**

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

**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.

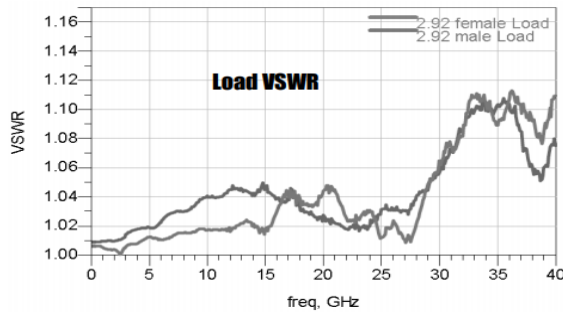
**Environmental Specifications**

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		
L1 = -2378.88 x 10 <sup>-24</sup> H/Hz	C1 = -38.5444 x 10 <sup>-27</sup> F/Hz	DC - 4	1.035		
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>	4 - 20	1.085		
L3 = -2.5613 x 10 <sup>-42</sup> H/Hz <sup>3</sup>	C3 = -0.0172 x 10 <sup>-45</sup> F/Hz <sup>3</sup>	20 - 26.5	1.12		
DELAY = 30.3937 ps	LOSS = 4.6888 GΩ/s	26.5 - 40	1.17		

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		
L1 = 374.812 x 10 <sup>-24</sup> H/Hz	C1 = 450.019 x 10 <sup>-27</sup> F/Hz	DC - 4	1.035		
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>	4 - 20	1.085		
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>	20 - 26.5	1.12		
DELAY = 30.3937 ps	LOSS = 3.9889 GΩ/s	26.5 - 40	1.17		

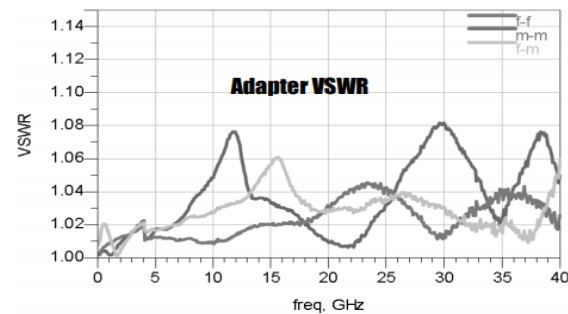


**Specifications**

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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