

Your calibration kit has been designed to withstand a moderate amount of physical stress. However, to retain its high precision performance you should treat it with care and prevent any mechanical shock.

It can be damaged if excessive force is applied to the connectors. Such a damage is considered as an abuse of the cal kit and will void the warranty when verified by our service professionals. When the kit is not in use, mount protective caps on the connectors such as the ones which came with the kit.

Store the kit in a shock-resistant environment.

Tighten 2.92 mm connectors with a torque wrench. Torque: 8 lb-inch (90 N-cm)

For information on service and recertification go to

<http://www.keysight.com/find/serviceprices>

<b>Temperature loading</b>	operating temperature range	+18 °C to +28 °C (non-condensing)
	storage temperature range	-40 °C to +70 °C, in line with EN 60068-2-1 and EN 60068-2-2
<b>Recommended inspection interval</b>		1 year

This information is subject to change without notice.

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Keysight  
Cal Kit 85561A  
2.92 mm (f)  
DC to 40 GHz

Standard	Electrical Delay	Offset Loss
Through		
female-female	116.114 ps	2.5 GΩ/s

Standard	Offset Delay	Offset Loss
Open		
female	31.5 ps	2.31 GΩ/s

Standard	Offset Delay	Offset Loss
Short		
female	31.3 ps	2.05 GΩ/s

Standard	DC-Resistance
Load	
female	50 Ω ± 0.5 Ω

Standard	Return Loss (typical)		
Through	DC to 4 GHz	4 to 26.5 GHz	26.5 to 40 GHz
female-female	≥ 30 dB	≥ 26 dB	≥ 21 dB

Standard	C0 E-15 F	C1 E-27 F/Hz	C2 E-36 F/Hz <sup>2</sup>	C3 E-45 F/Hz <sup>3</sup>
Open				
female	3.7458	-609.26	21.172	-0.14373

Standard	L0 E-12 H	L1 E-24 H/Hz	L2 E-33 H/Hz <sup>2</sup>	L3 E-42 H/Hz <sup>3</sup>
Short				
female	1.5918	-596.22	27.315	-0.42643

Standard	Return Loss (spec)			
Load	DC to 4 GHz	4 to 10 GHz	10 to 26.5 GHz	26.5 to 40 GHz
female	≥ 39 dB	≥ 33 dB	≥ 28 dB	≥ 24 dB

Standard	Insertion Loss (typical)
Through	DC to 40 GHz
female-female	≤ 0.04 dB sqrt (f/GHz)

Standard	Deviation from Nominal Phase (spec)			
Open	DC to 4 GHz	4 to 10 GHz	10 to 26.5 GHz	26.5 to 40 GHz
female	≤ 1.5°	≤ 2.5°	≤ 4.5°	≤ 5.0°

Standard	Deviation from Nominal Phase (spec)			
Short	DC to 4 GHz	4 to 10 GHz	10 to 26.5 GHz	26.5 to 40 GHz
female	≤ 1.5°	≤ 2.0°	≤ 3.5°	≤ 4.5°

Standard	Max. Power
Load	
female	0.25 W

The information in this document can be found at [www.keysight.com](http://www.keysight.com) by searching for part number 85561-90001