

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.

Type N connectors may be connected finger tight. If a torque wrench is used, 12 lb-inch (136 N-cm) is recommended. For information on service and recertification go to

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

Temperature loading	operating temperature range	+18 °C to +28 °C
	storage temperature range	-40 °C to +70 °C, in line with EN 60068-2-1 and EN 60068-2-2
Recommended inspection interval		1 year



85519-90001



Data Sheet

**85519A**

Cal Kit

Type-N(f) 50  $\Omega$

DC to 18 GHz

Standard	Electrical Delay
<b>Through</b>	
female-female	244.949 ps

Standard	Offset Delay
<b>Open</b>	
Female	85.954 ps

Standard	Offset Delay
<b>Short</b>	
female	85.954 ps

Standard	DC-Resistance
<b>Load</b>	
female	50 $\Omega$ $\pm$ 0.5 $\Omega$

Standard	Return Loss (typical)		
<b>Through</b>	DC to 4 GHz	4 to 8 GHz	8 to 18 GHz
female-female	$\geq$ 38 dB	$\geq$ 34 dB	$\geq$ 28 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>
<b>Open</b>				
female	0.8918	-1200	85.41	0.13

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>
<b>Short</b>				
female	16.9	-5881	614.4	-18.52

Standard	Return Loss (spec)		
<b>Load</b>	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
female	$\geq$ 42 dB	$\geq$ 35 dB	$\geq$ 32 dB

Standard	Insertion Loss (typical)		
<b>Through</b>	0 to 18 GHz		
female-female	$\leq$ 0.035 dB x sqrt (f/GHz)		

Standard	Deviation from Nominal Phase (spec)		
<b>Open</b>	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
female	$\leq$ 2.0°	$\leq$ 3.0°	$\leq$ 4.0°

Standard	Deviation from Nominal Phase (spec)		
<b>Short</b>	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
female	$\leq$ 1.5°	$\leq$ 2.5°	$\leq$ 3.0°

Standard	Max. Power		
<b>Load</b>			
female	0.5 W		

The information in this document can be found at [www.keysight.com](http://www.keysight.com) by searching for part number 85519-90001