

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 3.5 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>

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



85520-90001



Data Sheet

**85520A**

Cal Kit

Type-3.5mm(m) 50  $\Omega$

DC to 26.5 GHz

Standard	Electrical Delay
<b>Through</b>	
male-male	115.888 ps

Standard	Offset Delay
<b>Open</b>	
male	30.765 ps

Standard	Offset Delay
<b>Short</b>	
male	30.508 ps

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

Standard	Return Loss (typical)	
<b>Through</b>	DC to 5 GHz	5 to 26.5 GHz
male-male	$\geq$ 34 dB	$\geq$ 30 dB

Standard	$C_0$ E-15 F	$C_1$ E-27 F/Hz	$C_2$ E-36 F/Hz <sup>2</sup>	$C_3$ E-45 F/Hz <sup>3</sup>
<b>Open</b>				
male	-0.11	6	-4.39	0.179

Standard	$L_0$ E-12 H	$L_1$ E-24 H/Hz	$L_2$ E-33 H/Hz <sup>2</sup>	$L_3$ E-42 H/Hz <sup>3</sup>
<b>Short</b>				
male	4.645	-331	10.8	-0.12

Standard	Return Loss (spec)		
<b>Load</b>	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
male	$\geq$ 42 dB	$\geq$ 36 dB	$\geq$ 32 dB

Standard	Insertion Loss (typical)
<b>Through</b>	0 to 26.5 GHz
male-male	$\leq$ 0.035 dB x sqrt (f/GHz)

Standard	Deviation from Nominal Phase (spec)		
<b>Open</b>	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
male	$\leq$ 1.5°	$\leq$ 3.0°	$\leq$ 4.5°

Standard	Deviation from Nominal Phase (spec)		
<b>Short</b>	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
male	$\leq$ 1.0°	$\leq$ 2.5°	$\leq$ 4.0°

Standard	Max. Power
<b>Load</b>	
male	0.25 W

The information in this document can be found at [www.keysight.com](http://www.keysight.com) by searching for part number 85520-90001