

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://na.tm.agilent.com/fieldfox> and click the "Repair & Calibration" tab.

Temperature loading	operating temperature range	+5 °C to +40 °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



85515-90001



**Agilent Technologies**

Data Sheet  
**85515A**

Cal Kit  
Type-N(f) 50  $\Omega$   
DC to 9 GHz

Standard	Electrical Delay
<b>Through</b>	
female-female	241.167 ps

Standard	Offset Delay
<b>Open</b>	
Female	53.531 ps

Standard	Offset Delay
<b>Short</b>	
female	53.444 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 9 GHz
female-female	$\geq 36$ dB	$\geq 31$ dB	$\geq 28$ 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>				
female	-7.725	-2062.7965	1317.455	-112.18

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>				
female	25.3665	-8070.933	932.91	-33.888

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

Standard	Insertion Loss (typical)	
<b>Through</b>	DC to 4 GHz	4 to 9 GHz
female-female	$\leq 0.05$ dB	$\leq 0.1$ dB

Standard	Deviation from Nominal Phase (spec)	
<b>Open</b>	DC to 4 GHz	4 to 9 GHz
female	$\leq 2.0^\circ$	$\leq 3.0^\circ$

Standard	Deviation from Nominal Phase (spec)	
<b>Short</b>	DC to 9 GHz	
female	$\leq 1.25^\circ$	

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

The information in this document can be found at [www.agilent.com](http://www.agilent.com) by searching for part number 85515-90001