

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

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



85521-90001



Agilent Technologies

Data Sheet

85521A

Cal Kit

Type-3.5mm(f) 50 Ω

DC to 26.5 GHz

Standard	Electrical Delay
Through	
female-female	115.881 ps

Standard	Offset Delay
Open	
female	31.832 ps

Standard	Offset Delay
Short	
female	30.581 ps

Standard	DC-Resistance
Load	
female	50 Ω \pm 0.5 Ω

Standard	Return Loss (typical)	
Through	DC to 5 GHz	5 to 26.5 GHz
female-female	\geq 34 dB	\geq 30 dB

Standard	C_0 E-15 F	C_1 E-27 F/Hz	C_2 E-36 F/Hz ²	C_3 E-45 F/Hz ³
Open				
female	3.695	-625.6	-2.2	0.104

Standard	L_0 E-12 H	L_1 E-24 H/Hz	L_2 E-33 H/Hz ²	L_3 E-42 H/Hz ³
Short				
female	-8.424	2912	-217	4.51

Standard	Return Loss (spec)		
Load	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
female	\geq 42 dB	\geq 36 dB	\geq 32 dB

Standard	Insertion Loss (typical)
Through	0 to 26.5 GHz
female-female	\leq 0.035 dB sqrt (f/GHz)

Standard	Deviation from Nominal Phase (spec)		
Open	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
female	\leq 1.5°	\leq 3.0°	\leq 4.5°

Standard	Deviation from Nominal Phase (spec)		
Short	DC to 5 GHz	5 to 15 GHz	15 to 26.5 GHz
female	\leq 1.0°	\leq 2.5°	\leq 4.0°

Standard	Max. Power
Load	
female	0.25 W

The information in this document can be found at www.agilent.com by searching for part number 85521-90001