N1802 Calibration Kit

Electrical Data

Impedance	50Ω
Frequency range	DC to 18 GHz
Connector type	N-type

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	1.10 Nm
Gauge	5.28 mm to 5.32 mm

Open	Phase Error[1]
DC - 6 GHz	≤ 2°
6 GHz - 9 GHz	≤ 3°
9 GHz - 18 GHz	≤ 4°

Short	Phase Error[2]
DC - 6 GHz	≤ 1.5°
6 GHz - 9 GHz	≤ 2°
9 GHz - 18 GHz	≤ 2.5°

Load	
Resistance	50Ω ± 0.5Ω
Return Loss	
DC - 6 GHz	≥ 42 dB
6 GHz - 9 GHz	≥ 36 dB
9 GHz - 18 GHz	≥ 30 dB
Power Handling	≤ 1.0 W, derate by 0.01 W/K

Thru	
Return loss	
DC - 6 GHz	≥ 40 dB
6 GHz - 9 GHz	≥ 36 dB
9 GHz - 18 GHz	≥ 32 dB

Mechanical Data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	1.10 Nm
Gauge	5.28 mm to 5.32 mm

Environmental Data

Operating temperature[3]	20°C to 26°C
Storage temperature	-40°C to +85°C

Coefficients

Open	C_0 = -14.2000 x 10^{-15} F	-14.2000 fF
	C_1 = 400.000 x 10^{-27} F/Hz	0.40000 fF/GHz
	C_2 = -16.0000 x 10^{-36} F/Hz^2	-0.01600 fF/GH^2
	C_3 = 1.00000 x 10^{-45} F/Hz^3	0.00100 fF/GHz^3
	Electrical (Offset) delay	73.384 ps
	Electrical (Offset) loss	0.80 GΩ/s
Short	L_0 = -27.0000 x 10^{-12} H	-27.0000 pH
	L_1 = 7200.00 x 10^{-24} H/Hz	7.20000 pH/GHz
	L_2 = -800 x 10^{-33} H/Hz^2	-0.80000 pH/GHz^2
	L_3 = 26.0000 x 10^{-42} H/Hz^3	0.02600 pH/GHz^3
	Electrical (Offset) delay	73.384 ps
	Electrical (Offset) loss	0.80 GΩ/s
Load	Electrical (Offset) delay	0.0 ps
	Electrical (Offset) loss	0.0 GΩ/s
Thru	Electrical (Offset) delay	212.814 ps
	Electrical (Offset) loss	2.20 GΩ/s

[1] The nominal phase is defined by the Offset Delay, the Offset Loss, and the Fringing Capacitancies
[2] The nominal phase is defined by the Offset Delay, the Offset Loss, and the Short Inductant
[3] Temperature range over which these specifications are valid

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