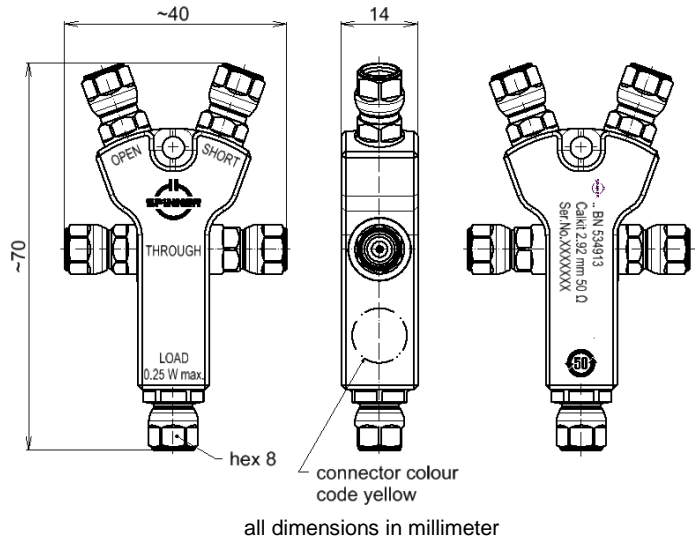


OSLT Compact Calibration Kit (4-in-1) || BN 534913



Radio frequency characteristics

Interface type		2.92 mm plug per IEEE Std 287, GPC ¹⁾					
Frequency range		DC to 44 GHz					
THROUGH	Return loss, min.	30 dB @ DC to 4 GHz 26 dB @ 4 to 26.5 GHz 21 dB @ 26.5 to 40 GHz 19 dB @ 40 to 44 GHz					
	Insertion loss, max.	0.04 dB x $\sqrt{f(\text{GHz})}$					
OPEN	Phase deviation, max.	1.5 deg. @ DC to 4 GHz 2.5 deg. @ 4 to 10 GHz 4.5 deg. @ 10 to 26.5 GHz 5.0 deg. @ 26.5 to 44 GHz					
		SHORT	Phase deviation, max.	1.5 deg. @ DC to 4 GHz 2.0 deg. @ 4 to 10 GHz 3.5 deg. @ 10 to 26.5 GHz 4.5 deg. @ 26.5 to 44 GHz			
				LOAD	Return loss, min.	DC-resistance	50 Ω ± 0.5 Ω
						LOAD	Return loss, min.
LOAD	Return loss, min.						

1) In preparation of the upcoming new version of the IEEE Std. 287, the standards in this kit have a pin diameter of 0.927 mm. Usage with female connectors designed for a pin diameter of 0.914 mm results in an increase of the reflection factor magnitude of typically 0.01 for the load and every port of through and an increase of the phase deviation of open and short of typically 1°.

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OSLT Compact Calibration Kit (4-in-1) || BN 534913

Calibration data

Format		Keysight / Anritsu	Rohde & Schwarz
THROUGH	Electrical delay / length	116.28 ps	34.86 mm
OPEN	C0	$-2.619 \times 10^{-15} \text{ F}$	-2.619 fF
	C1	$308.061 \times 10^{-27} \text{ F/Hz}$	0.308061 fF/GHz
	C2	$-9.839 \times 10^{-36} \text{ F/Hz}^2$	-0.009839 fF/(GHz) ²
	C3	$0.118 \times 10^{-45} \text{ F/Hz}^3$	0.000118 fF/(GHz) ³
	Offset	31.591 ps	9.471 mm
SHORT	L0	$-155.625 \times 10^{-12} \text{ H}$	-155.625 pH
	L1	$-331.124 \times 10^{-24} \text{ H/Hz}$	-0.331124 pH/GHz
	L2	$4.118 \times 10^{-33} \text{ H/Hz}^2$	0.004118 pH/(GHz) ²
	L3	$-0.583 \times 10^{-42} \text{ H/Hz}^3$	-0.000583 pH/(GHz) ³
	Offset	34.372 ps	10.304 mm
Offset loss		2 GΩ/s	

Mechanical characteristics

Center conductor material / surface finish	CuBe age hardened / gold-plated
Outer conductor material / surface finish	CuBe, copper alloy / gold-plated
Insulation	cross linked polystyrene, PS
Other metallic parts / surface finish	CuBe / CuSnZn-plated aluminium / anodised (blue)
Weight, approx.	0.05 kg
Marking	laser engraving

Component Name	Toxic or Hazardous Substances and Elements					
	Pb	Hg	Cd	Cr 6+	PBB	PBDE
Metal parts	X	O	O	O	O	O

The environmental protection use period of 50 years is valid, if the product is used as intended.

Environmental conditions

Operation	
Ambient temperature range	+18 to +28°C
Storage	
Ambient temperature range	-40 to +70°C (in line with EN 60068-2-1 and EN 60068-2-2)

Scope of delivery and accessories

Scope of delivery	certificate of calibration, protective caps, protective bag, data sheet, handling instructions
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