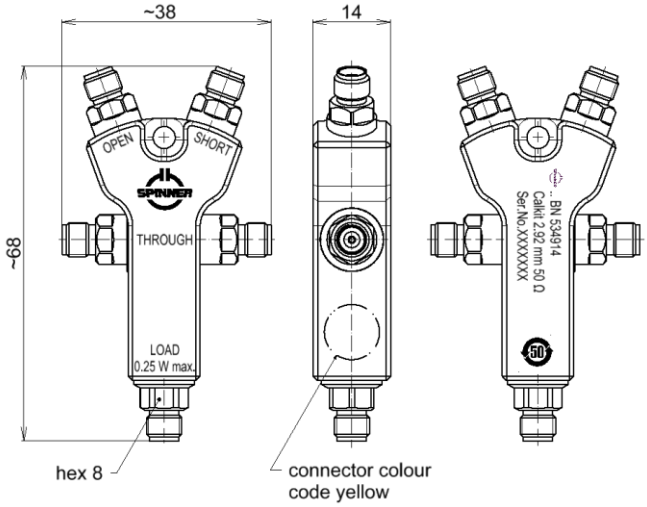
OSLT Compact Calibration Kit (4-in-1) || BN 534914





all dimensions in millimeter

Radio frequency characteristics

Interface type		2.92 mm socket 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 $\sqrt{f\ (GHz)}$
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	DC-resistance	50 Ω ± 0.5 Ω
	Return loss, min.	39 dB @ DC to 4 GHz 33 dB @ 4 to 10 GHz 28 dB @ 10 to 26.5 GHz 24 dB @ 26.5 to 40 GHz 22 dB @ 40 to 44 GHz
	Power rating, max.	0.25 W

1) In preparation of the upcoming new version of the IEEE Std. 287, the standards in this kit are designed for a pin diameter of 0.927 mm. Usage with male connectors with 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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Calibration data

Format		Keysight / Anritsu	Rohde & Schwarz
THROUGH	Electrical delay / length	116.28 ps	34.86 mm
OPEN	C0	-5.847 x 10^{-15} F	-5.847 fF
	C1	720.656 x 10^{-27} F/Hz	0.720656 fF/GHz
	C2	-29.195 x 10^{-36} F/Hz^2	-0.029195 fF/(GHz)^2
	C3	0.377 x 10^{-45} F/Hz^3	0.000377 fF/(GHz)^3
	Offset	31.554 ps	9.46 mm
SHORT	L0	12.513 x 10^{-12} H	12.513 pH
	L1	-1299.154 x 10^{-24} H/Hz	-1.299154 pH/GHz
	L2	54.693 x 10^{-33} H/Hz^2	0.054693 pH/(GHz)^2
	L3	-0.702 x 10^{-42} H/Hz^3	-0.000702 pH/(GHz)^3
	Offset	31.174 ps	9.346 mm
Offset loss		2.5 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	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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