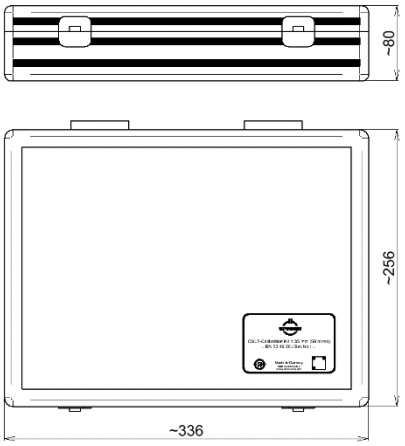
Calibration kit; OSLT; boxed 1.35 mm | BN 534936



all dimensions in millimeter

Radio frequency characteristics

Interface type		1.35 mm plug and socket per IEEE Std 287
Frequency range		DC to 90 GHz
Characteristic impedance		50 Ω
THROUGH	Return loss, min.	27 dB @ DC to 10 GHz 24 dB @ 10 to 26.5 GHz 21 dB @ 26.5 to 50 GHz 18 dB @ 50 to 70 GHz 15 dB @ 70 to 90 GHz
	Insertion loss, max.	0.07 dB x $\sqrt{f\ (GHz)}$
OPEN	Defined by:	determination of S-parameters
SHORT	Defined by:	determination of S-parameters
LOAD	DC-resistance	50 Ω ± 0.5 Ω
	Return loss, min.	31 dB @ DC to 10 GHz 25 dB @ 10 to 26.5 GHz 20 dB @ 26.5 to 50 GHz 14 dB @ 50 to 70 GHz 10 dB @ 70 to 90 GHz
	Defined by:	determination of S-parameters
	Power rating, max.	0.1 W

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Mechanical characteristics

Inner conductor material / surface coating	CuBe age hardened / gold-plated
Outer conductor material / surface coating	CuBe / gold-plated
Dielectric material	PS
Other parts material / surface coating	copper alloy / gold plated CuBe / CuSnZn-plated stainless steel
Weight, approx.	1.1 kg
Marking	laser engraving

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 [1)]
Relative humidity, max.	95% (non-condensing)
Storage	
Ambient temperature range	-40 to +70°C (in line with EN 60068-2-1 and EN 60068-2-2)
Relative humidity, max.	95% (non-condensing)

1) Temperature range within all components maintain conformance to their specification.

Scope of delivery

Description	Qty per kit	Part No	Calibration Option
1.35 mm Open circuit plug	1	BN 534931R000	Factory calibration
1.35 mm Open circuit socket	1	BN 534932R000	Factory calibration
1.35 mm Short circuit plug	1	BN 534929R000	Factory calibration
1.35 mm Short circuit socket	1	BN 534930R000	Factory calibration
1.35 mm Load plug	1	BN 534927R000	Factory calibration
1.35 mm Load socket	1	BN 534928R000	Factory calibration
1.35 mm Through plug / plug	1	BN 534933R000	Factory calibration
1.35 mm Through socket / socket	1	BN 534934R000	Factory calibration
Torque Wrench 8 mm / 90 N·cm	1	BN 154141R000	Factory calibration
Certificate of calibration incl. calibration data			
USB flash drive including certificate of calibration determined S-parameter-files for OPEN, SHORT, LOAD data sheet product manual calibration kit Handling instruction torque wrench		 M36515 M31071	
Aluminium storage case			

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Accessories

1.35 mm Through plug / socket	BN 534935R000
1.35 mm Gauge male conductor	BN 534940
1.35 mm Gauge female conductor	BN 534941

Calibration data

Calibration data includes determined S-parameters for OPEN, SHORT and LOAD standards to achieve best possible performance.

Re-calibration

The suggested initial interval for recalibration is 12 months or 500 matings, whichever comes first. The actual need for recalibration depends on the use and the maintenance of the kit. The recalibration interval should begin with the day of initial use after recalibration.

Pin depth limits

Pin depth is the distance between outer conductor mating plane and inner conductor mating plane. Positive values stand for protrusion of the inner conductor, negative values for recession.

Connector Type	Typical Pin Depth	Measurement Uncertainty	Ranges of measurement [2)]
1.35 mm	-0.003 to -0.02 mm	0.003 mm	0 to -0.023 mm

2) Ranges of measurement is the limit that could be measured with a suitable gauge due to the measurement uncertainty. These values could still be within the specification. The measurement uncertainty is based on the measurement with SPINNER gauges and the specified operating temperature. Deviation from these conditions may cause higher measurement uncertainty.