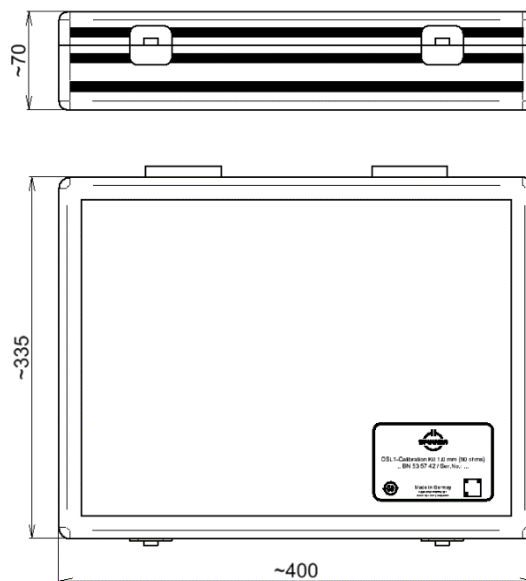


Calibration kit OSLT; boxed, 1.0 mm with dial gauges | BN 535743



picture similar



all dimensions in millimeter

Radio frequency characteristics

Interface type		1.0 mm plug and socket per IEC 61169-31
Frequency range		DC to 116.5 GHz (resonance free up to 120 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 12 dB @ 90 to 116.5 GHz
	Insertion loss, max. / typ.	0.7 dB / 0.5 dB
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 22 dB @ 26.5 to 70 GHz 17 dB @ 70 to 116.5 GHz
	Defined by:	determination of S-parameters
	Average power rating	50 mW

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## Calibration kit OSLT; boxed, 1.0 mm with dial gauges | BN 535743

### Mechanical characteristics

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

### Dial gauge characteristics

Dial range	100 $\mu\text{m}$ (85 $\mu\text{m}$ recess to 15 $\mu\text{m}$ protrusion)	
Scale division	1 $\mu\text{m}$	
Tolerance markings	colored dial segments for the two devices under test	
Connector grade	Grade 0 (yellow)	Grade 1 (green)
Pin depth range	0 to 13 $\mu\text{m}$	0 to 50 $\mu\text{m}$
Pin depth tolerance	13 $\mu\text{m}$	50 $\mu\text{m}$
Measurement error, max.	3 $\mu\text{m}$	
Measuring force, approx.	0.5 N	
Material of the touchable metal parts	stainless steel	
Marking	laser engraving	

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

### Environmental conditions

<b>Operation</b>	
Ambient temperature range	+18 to +28°C <sup>1)</sup>
Relative humidity, max.	95% (non-condensing)
<b>Storage</b>	
Ambient temperature range	-30 to +50°C
Relative humidity, max.	95% (non-condensing)

<sup>1)</sup> Temperature range within all components maintain conformance to their specification.

## Calibration kit OSLT; boxed, 1.0 mm with dial gauges | BN 535743

### Scope of delivery

Description	Qty per kit	Part No	Calibration Option
1.0 mm Open circuit plug	1	BN 535733	Factory calibration
1.0 mm Open circuit socket	1	BN 535734	Factory calibration
1.0 mm Short circuit plug	1	BN 535735	Factory calibration
1.0 mm Short circuit socket	1	BN 535736	Factory calibration
1.0 mm Load plug	1	BN 535737	Factory calibration
1.0 mm Load socket	1	BN 535738	Factory calibration
1.0 mm Through plug / plug	1	BN 535739	Factory calibration
1.0 mm Through socket / socket	1	BN 535740	Factory calibration
1.0 mm Through plug / socket	1	BN 535741	Factory calibration
Torque wrench 6 mm / 45 N·cm	1	BN 238748C0001	Factory calibration
Torque wrench 6 mm / 34 N·cm	1	BN 238749C0001	Factory calibration
1.0 mm Dial gauge for male mating face	1	BN 537085	Factory calibration
1.0 mm Dial gauge for female mating face	1	BN 537086	Factory calibration
Double open-ended spanner 7 mm	1	BN 238750	
Certificate of calibration incl. calibration data			
USB flash drive including certificate of calibration determined S-parameter-files for OPEN, SHORT, LOAD calibration data for THROUGH data sheet			
product manual calibration kit		Doc.No. 10093804	
handling instruction torque wrench		Doc.No. 10093494	
handling instruction dial gauges		Doc.No. 10089752, 10086119	
Aluminium storage case			

### Calibration data

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

### Re-calibration

The suggested initial interval for recalibration is 12 months or 500 mating's, 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. Negative values stand for protrusion of the inner conductor, positive values for recession.

Connector type	Specified pin depth	Measurement error, max.
1.0 mm	0 to 13 µm	3 µm