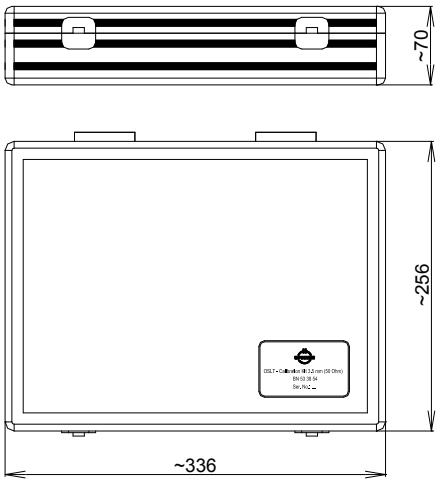
OSLT CALIBRATION KIT



Part number	**BN 53 38 56**				
Connector type	2.92 mm plug, 2.92 mm socket				
Impedance	50 Ω				
Frequency range	0 - 40 GHz				
Electrical data					
Open [1]	Frequency range	0 - 4 GHz	4 - 10 GHz	10 - 26.5 GHz	26.5 - 40 GHz
	Phase error	≤ 0.75°	≤ 1.5°	≤ 2.5°	≤ 3.5°
	Offset length socket	8.8 mm			
	Offset length plug	8.8 mm			
Short [1]	Frequency range	0 - 4 GHz	4 - 10 GHz	10 - 26.5 GHz	26.5 - 40 GHz
	Phase error	≤ 0.5°	≤ 1°	≤ 2°	≤ 3°
	Offset length socket	9.35 mm			
	Offset length plug	9.35 mm			
Load	Frequency range	0 - 4 GHz	4 - 10 GHz	10 - 26.5 GHz	26.5 - 32 GHz	32 - 40 GHz
	Return loss	≥ 40 dB	≥ 34 dB	≥ 30 dB	≥ 28 dB	≥ 25 dB
	DC-resistance	50 Ω ±0.5				
Through [2]	Frequency range	0 - 4 GHz	4 - 26.5 GHz	26.5 - 40 GHz		
	Return loss	≥ 33 dB	≥ 30 dB	≥ 25 dB		
	Electrical length	25.53 mm				
Material and surface						
Inner conductor	CuBe age hardened	gold-plated				
	copper alloy	gold-plated				
Outer conductor	CuBe	gold-plated				
Other metal parts	copper alloy	CuSnZn-plated				
Insulation	cross linked polystyrene, PS					
Standards	IEEE Std 287					
Operating temperature	+18 °C - +28 °C [3]					
Storage temperature	-40 °C - +70 °C					
Relative humidity	0 - 95% at 40 °C, non-condensing					
Weight	approx. 1.3 kg					
Product manual	M36041					
Included in delivery	certificate of calibration, USB-Stick with calibration data and documentation, open end torque wrench AF 8 with torque setting 90 Ncm, aluminium storage case					

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1) The specifications for the opens and shorts are given as allowed deviation from the nominal model as defined in the calibration data.
2) Electrical values for adapter (THROUGHs) plug-plug, socket-socket and plug-socket
3) Temperature range within all components maintain conformance to their specification.

Calibration data

Calibration data in formats for the common VNAs are included in the kit. It includes individual calibration coefficients for every kit to achieve the best possible performance.

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 [4)]
2.92 mm	0 to -0.013 mm	0.003 mm	+0.003 to -0.016 mm

4) Ranges of measurement is the limit that could be measured with a suitable gauge due to the measurement uncertainty. These value could still be within the specification. The measurement uncertainty is based on the measurement with SPINNER gauges, mounting torque 90 Ncm and the specified operating temperature. Deviation from these conditions may cause higher measurement uncertainty.