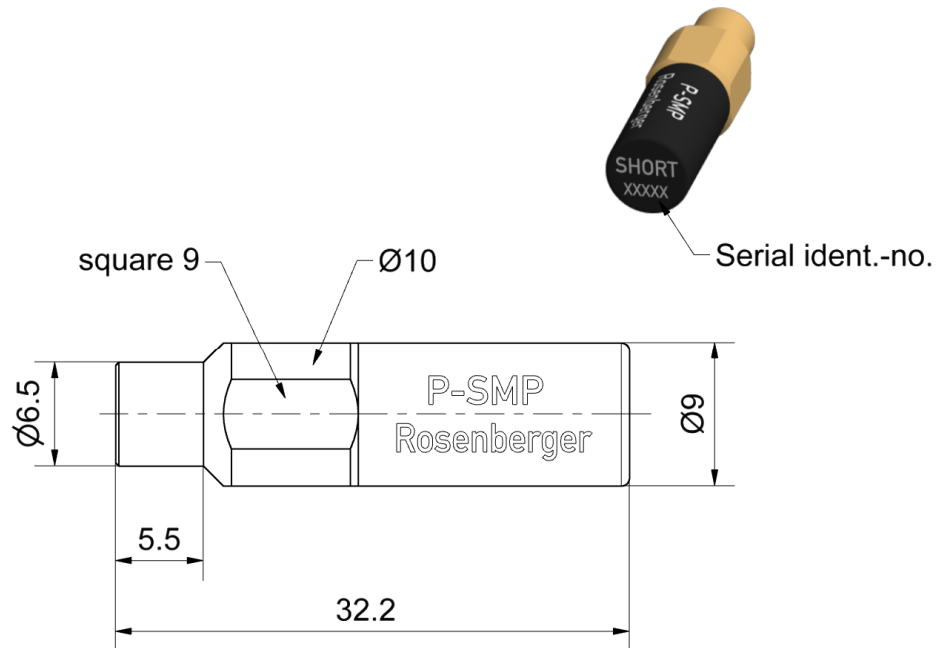




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

Rosenberger P-SMP

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor

Material

CuBe
CuBe or equiv.

Plating

Gold, min. 1.27 µm, over nickel
Gold, min. 1.27 µm, over nickel

Electrical data

Frequency range	DC to 10 GHz
Return loss	≤ 0.15 dB, DC to 4 GHz ≤ 0.25 dB, 4 GHz to 10 GHz
Error from nominal phase ¹	$\leq 2^\circ$, DC to 4 GHz $\leq 4^\circ$, 4 GHz to 10 GHz

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance

Mechanical data

Mating cycles	≥ 100
Engagement force:	
- Full detent	≤ 68 N
Disengagement force:	
- Full detent	≥ 25 N
Gauge	0.00 mm to 0.05 mm

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

Offset Z_0 / Impedance / Z_0	50 Ω
Offset Delay	26.018 ps
Length (electrical) / Offset Length	7.80 mm
Offset Loss	2.36 G Ω /s
Loss	0.0107 dB/ $\sqrt{\text{GHz}}$
Short Inductance ²	

² Short Inductances are determined individually for each Short circuit and are documented in a Calibration Certificate.

Environmental data

Operating temperature range ³	+20 °C to +26 °C
Rated temperature range of use ⁴	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS	compliant
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³ Temperature range over which these specification are valid.

⁴ This range is underneath and above the operating temperature range, within the short circuit is fully functional and could be used without damage.

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger																																	
P-SMP		Short Circuit Plug - full detent		119S12S-000D3																																	
Declaration of calibration options Factory Calibration Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to Rosenberger standards, national / international standards are not available. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. Accredited Calibration Not available. <i>For further, more detailed information see application note AN001 on the Rosenberger homepage.</i> Calibration interval <table><tr><td>Recommendation</td><td>12 months</td></tr></table> Packing <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>8.6 g/pce</td></tr></table> While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary. <table><tr><td>Draft</td><td>Date</td><td>Approved</td><td>Date</td><td>Rev.</td><td>Engineering change number</td><td>Name</td><td>Date</td></tr><tr><td>O. Krautenbacher</td><td>19.11.12</td><td>Markus Müller</td><td>12.10.16</td><td>d00</td><td>16-1390</td><td>Marion Striegler</td><td>12.10.16</td></tr></table> <table><tr><td colspan="4">Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de</td><td colspan="3">Tel. : +49 8684 18-0 Email : info@rosenberger.de</td><td>Page 3 / 3</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	8.6 g/pce	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date	O. Krautenbacher	19.11.12	Markus Müller	12.10.16	d00	16-1390	Marion Striegler	12.10.16	Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 3 / 3
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