



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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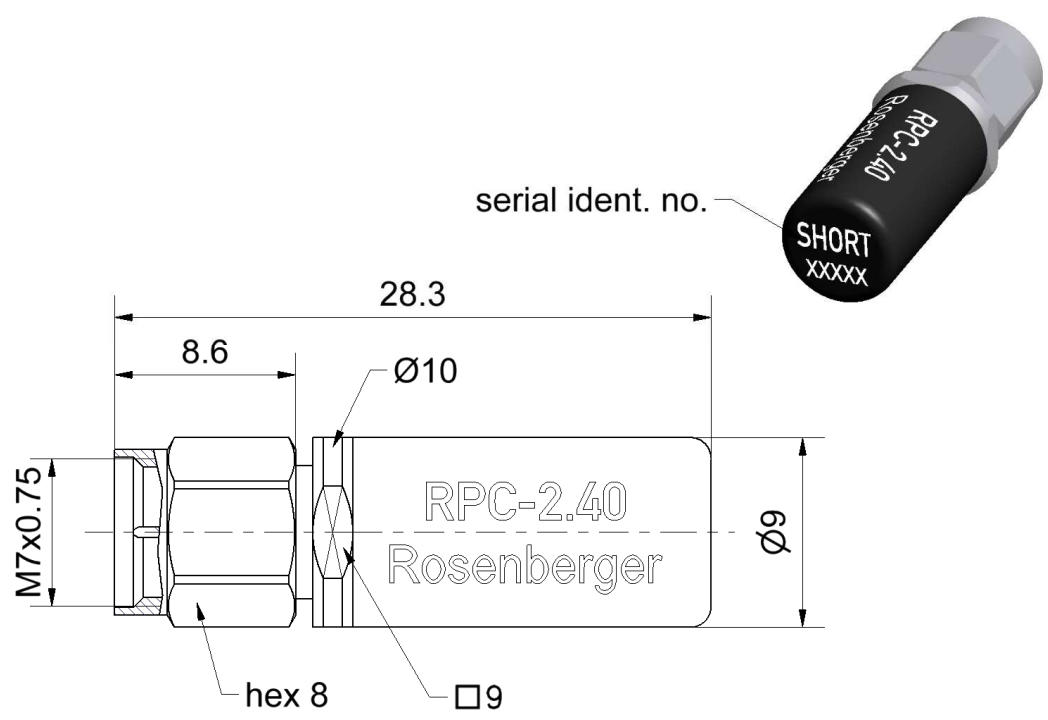
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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RF_35/05.10/6.0

Technical Data Sheet		Rosenberger
RPC-2.40	Short Circuit Plug	09S12S-000S3
<div><p>serial ident. no.</p></div>		
<p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <div><div>Interface</div><div>According to Mechanically compatible with</div><div>IEC 61169-40 RPC-1.85</div></div> <div><div>Documents</div><div>Application note</div><div>AN001 "Calibration Services"</div></div> <div><div>Material and plating</div><div><div>Connector parts</div><div>Center conductor Outer conductor Coupling nut</div><div>Material CuBe Stainless steel Stainless steel</div><div>Plating Gold, min. 1.27 µm, over nickel Passivated Passivated</div></div></div>		
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
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Electrical data

Frequency range	DC to 50 GHz
Return loss	≤ 0.15 dB, DC to 4 GHz ≤ 0.20 dB, 4 GHz to 26.5 GHz ≤ 0.25 dB, 26.5 GHz to 50 GHz
Error from nominal phase ¹	$\leq 1.5^\circ$, DC to 4 GHz $\leq 3.0^\circ$, 4 GHz to 26.5 GHz $\leq 4.5^\circ$, 26.5 GHz to 50 GHz

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

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.03 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	23.3500 ps
Length (electrical) / Offset Length	7.00 mm
Offset Loss	3.50 G Ω /s
Loss	0.0142 dB/ $\sqrt{\text{GHz}}$
Short Inductance ²	

² Short Inductance 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 specifications 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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<div>Declaration of calibration options</div> <div>Factory Calibration</div> <p>Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.</p> <div>Accredited Calibration</div> <p>Not available.</p> <p>For further, more detailed information see application note AN001 on the Rosenberger homepage.</p> <div>Calibration interval</div> <table><tr><td>Recommendation</td><td>12 months</td></tr></table> <div>Packing</div> <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>6.8 g/pce</td></tr></table> <p>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.</p> <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>Herbert Babinger</td><td>08.09.04</td><td>Martin Moder</td><td>24.03.15</td><td>g00</td><td>14-1492</td><td>Herbert Babinger</td><td>24.03.15</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	6.8 g/pce	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date	Herbert Babinger	08.09.04	Martin Moder	24.03.15	g00	14-1492	Herbert Babinger	24.03.15	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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