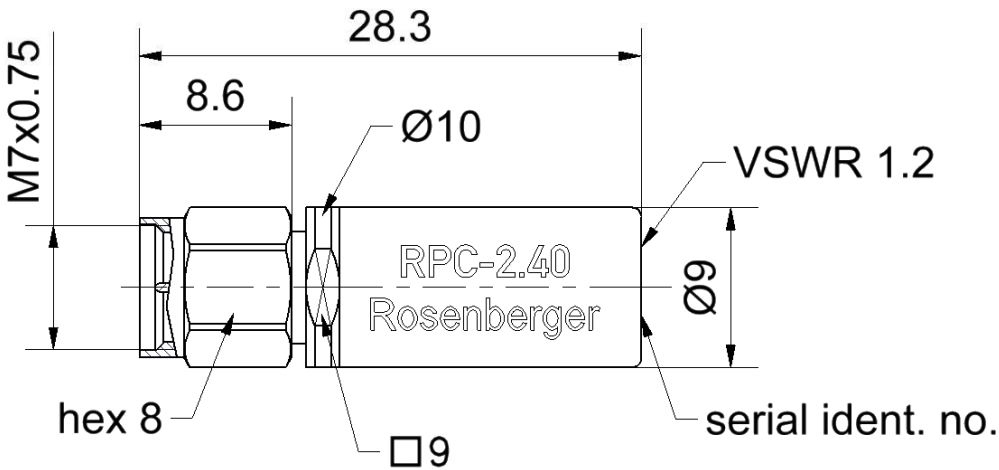



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RF\_35/09.14/6.2

Technical Data Sheet		Rosenberger																																				
RPC-2.40	Mismatch Plug	09S150-060S3																																				
<div><p>Technical drawing details: The drawing shows a side view of the connector. Dimensions include a total length of 28.3 mm, a distance of 8.6 mm from the front flange to the center of the contact, and a diameter of Ø10 mm for the main body. The front flange has an M7x0.75 thread and a hex 8 base. The rear flange has a Ø9 diameter and a square 9 feature. The VSWR is specified as 1.2. The part is labeled 'RPC-2.40' and 'Rosenberger'.</p></div>																																						
<p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <table><tr><td colspan="2"><b>Interface</b></td><td></td></tr><tr><td>According to</td><td>IEC 61169-40</td><td></td></tr><tr><td>Mechanically compatible with</td><td>RPC-1.85</td><td></td></tr><tr><td colspan="2"><b>Documents</b></td><td></td></tr><tr><td>Application note</td><td>AN001 "Calibration Services"</td><td></td></tr><tr><td colspan="2"><b>Material and plating</b></td><td></td></tr><tr><td><b>Connector parts</b></td><td><b>Material</b></td><td><b>Plating</b></td></tr><tr><td>Center contact</td><td>Beryllium copper</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer contact</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PS</td><td></td></tr><tr><td>Substrate</td><td>Al<sub>2</sub>O<sub>3</sub></td><td></td></tr></table>			<b>Interface</b>			According to	IEC 61169-40		Mechanically compatible with	RPC-1.85		<b>Documents</b>			Application note	AN001 "Calibration Services"		<b>Material and plating</b>			<b>Connector parts</b>	<b>Material</b>	<b>Plating</b>	Center contact	Beryllium copper	Gold, min. 1.27 µm, over nickel	Outer contact	Stainless steel	Passivated	Coupling nut	Stainless steel	Passivated	Dielectric	PS		Substrate	Al <sub>2</sub> O <sub>3</sub>	
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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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Technical Data Sheet				Rosenberger			
RPC-2.40		Mismatch Plug		09S150-060S3			
<b>Electrical data</b>							
Frequency		DC to 50 GHz					
Return loss		≥ 1.2 ± 0.08, DC to 20 GHz					
		≥ 1.2 ± 0.13, 20 GHz to 50 GHz					
DC Resistance		60 Ω ± 0.30 Ω					
Power handling (at 25 °C, sea level)		≤ 0.5 W, derated linearity by 0.005 W/K					
<b>Mechanical data</b>							
Mating cycles		≥ 500					
Maximum torque		1.65 Nm					
Recommended torque		0.90 Nm					
Gauge		0.00 mm to 0.03 mm					
<b>Environmental data</b>							
Operating temperature range <sup>1</sup>		+20 °C to +26 °C					
Rated temperature range of use <sup>2</sup>		0 °C to +50 °C					
Storage temperature range		- 40 °C to +85 °C					
RoHS		compliant					
<sup>1</sup> Temperature range over which these specification are valid.							
<sup>2</sup> This range is underneath and above the operating temperature range, within the mismatch is fully functional and could be used without damage.							
<b>Declaration of calibration options</b>							
<b>Factory Calibration</b>							
Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards.							
<b>Accredited Calibration</b>							
Not available.							
For further, more detailed information see application note AN001 on the Rosenberger homepage.							
<b>Calibration interval</b>							
Recommendation		12 months					
<b>Packing</b>							
Standard		1 pce in box					
Weight		6.7 g/pce					
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.							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Marion Striegler	19.08.14	Lars Ramtke	08.10.19	d00	19-1910	Marion Striegler	08.10.19
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