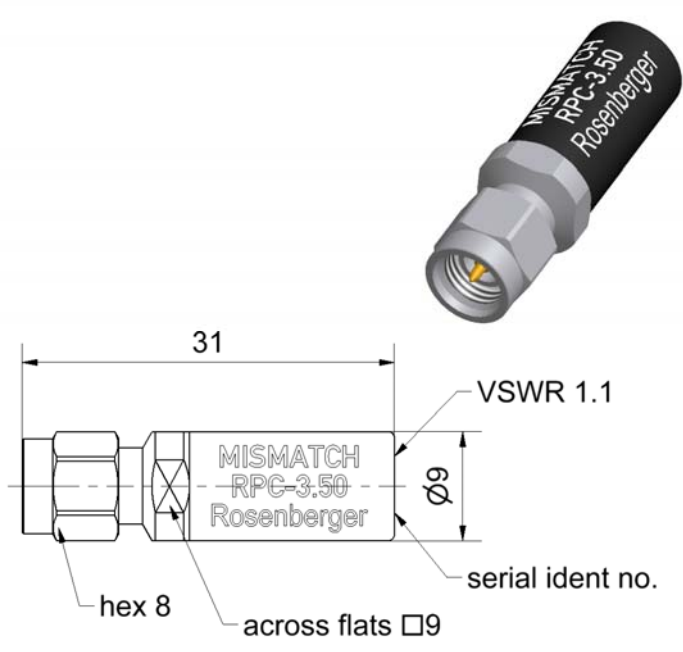


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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger																		
RPC-3.50	Mismatch Plug	03S150-055S3																		
 The image shows a 3D perspective view of the Mismatch Plug connector and a corresponding technical side-view drawing. The 3D model is a black cylindrical component with a silver-colored SMA connector at one end. The technical drawing shows a cylindrical body with a hexagonal base. Key dimensions and features are labeled: a total length of 31 mm, a VSWR of 1.1, a diameter of Ø9 mm, a hex 8 base, across flats of 9 mm, and a serial identification number. The text 'MISMATCH RPC-3.50 Rosenberger' is printed on the side of the component.																				
All dimensions are in mm; tolerances according to ISO 2768 m-H																				
Interface According to IEC 60169-23 Mechanically compatible with RPC-2.92 and SMA																				
Documents Application note AN001 "Calibration Services"																				
Material and plating <table><tr><td>Connector parts</td><td>Material</td><td>Plating</td></tr><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</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>PEEK</td><td></td></tr><tr><td>Substrate</td><td>Al₂O₃</td><td></td></tr></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27 µm, over nickel	Outer conductor	Stainless steel	Passivated	Coupling nut	Stainless steel	Passivated	Dielectric	PEEK		Substrate	Al ₂ O ₃	
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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 Page 1 / 2																		

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Technical Data Sheet				Rosenberger			
RPC-3.50		Mismatch Plug		03S150-055S3			
Electrical data Frequency rangeDC to 26.5 GHz VSWR1.1 ±0.03, DC to 12 GHz 1.1 ±0.05, 12 GHz to 26.5 GHz DC Resistance55 Ω Power handling≤ 0.5 W Mechanical data Mating cycles≥ 500 Maximum torque1.70 Nm Recommended torque0.90 Nm Gauge0.00 mm to 0.04 mm Environmental data Operating temperature range¹+20 °C to +26 °C Rated temperature range of use²0 °C to +50 °C Storage temperature range-40 °C to +85 °C RoHScompliant ¹ Temperature range over which these specification are valid. ² This range is underneath and above the operating temperature range, within the mismatch is fully functional and could be used without damage. 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 national / international standards. Accredited Calibration Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards. Calibration results are reported in a dense data set file. The uncertainties are smaller than in a Factory Calibration. For further, more detailed information see application note AN001 on the Rosenberger homepage. Calibration interval Recommendation12 months Packing Standard1 pce in box Weight8.8 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	
Herbert Babinger		17.10.14		Martin Moder		17.10.14	
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Rev. e00		Engineering change number 14-1492	
				Name Herbert Babinger		Date 17.10.14	
				Tel. : +49 8684 18-0		Page	
				Email : info@rosenberger.de		2 / 2	

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