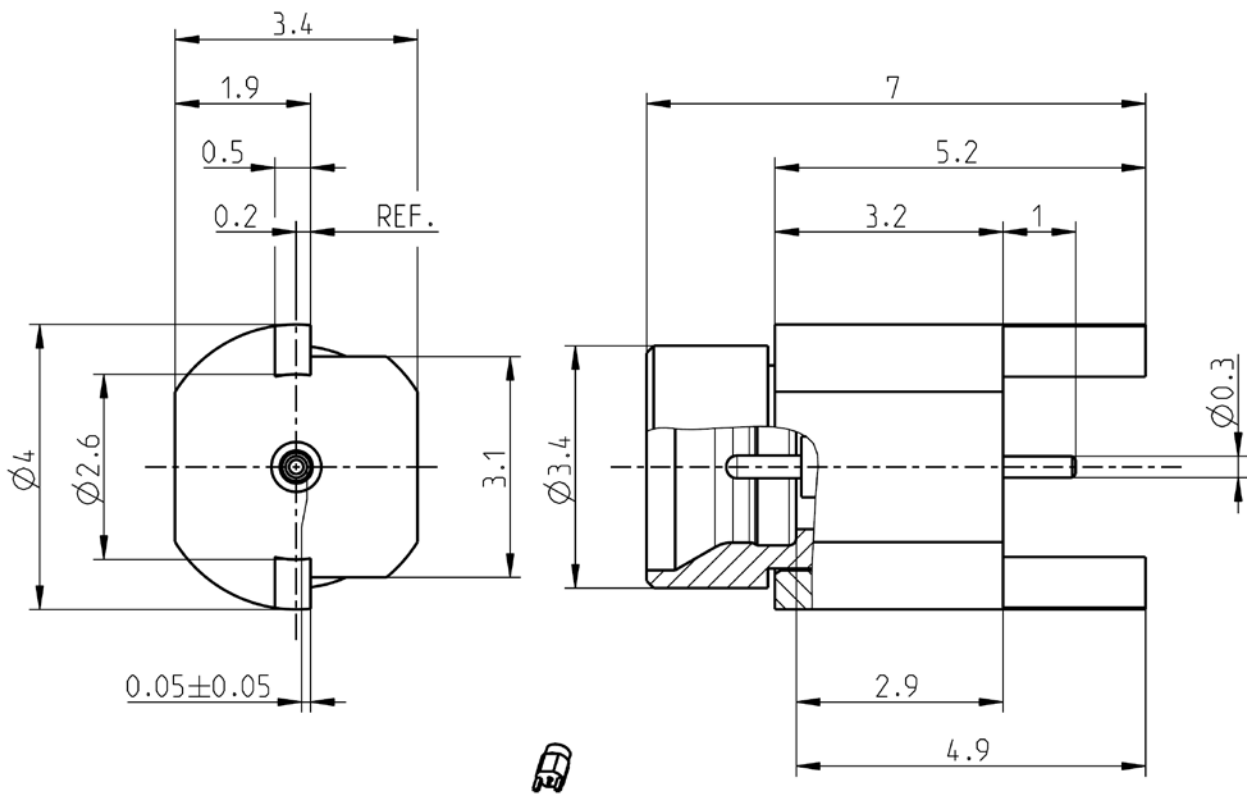


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RF_35/05.10/6.0

Technical Data Sheet		Rosenberger
Mini-SMP	Right Angle Plug PCB FULL DETENT	18S20R-40ME4
 The drawing shows two views of the connector. The left view is a front view of the plug, showing a circular body with a central contact. Dimensions include a total width of 3.4 mm, a contact width of 1.9 mm, a contact offset of 0.5 mm, a contact thickness of 0.2 mm, a reference (REF.) line, a body diameter of 4 mm, an inner diameter of 2.6 mm, a body height of 3.1 mm, and a contact height of 0.05 ± 0.05 mm. The right view is a side view showing the plug's profile. Dimensions include a total length of 7 mm, a contact length of 5.2 mm, a contact offset of 3.2 mm, a contact thickness of 1 mm, a body diameter of 3.4 mm, a body height of 2.9 mm, and a total height of 4.9 mm. A small detail of the contact tip is shown with a diameter of 0.3 mm.		
All dimensions are in mm; tolerances acc. ISO 2768 m-H		
Interface		MIL-STD-348A, Fig. 328 Mateable with GPPO™ (Gilbert Engineering Co., Inc.) and SSMP™ (Connectors Devices, Inc.)
According to		
Documents		B 339e VG148.2M000
PCB layout Tape & reel packaging		
Material and plating		
Connector parts		
Center contact		Material CuBe Brass PEEK
Outer contact		
Dielectric		
		Plating Gold, min. 0.8 µm, over chemical nickel Gold, min. 0.8 µm, over chemical nickel
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Technical Data Sheet				Rosenberger			
Mini-SMP		Right Angle Plug PCB FULL DETENT		18S20R-40ME4			
Electrical data Impedance Frequency Return loss Insertion loss Insulation resistance Center contact resistance Outer contact resistance Working voltage (at sea level) (at 70000 feet) 50 Ω DC to 65 GHz ≥ 35 dB @ DC to 15 GHz ≥ 23 dB @ 15 GHz to 25 GHz ≥ 20 dB @ 25 GHz to 40 GHz ≤ 0.1 x √f [GHz] dB @ DC to 18 GHz ≥ 5 GΩ ≤ 6.0 mΩ ≤ 2.0 mΩ 325 V rms 125 V rms - VSWR in application depends decisive on PCB layout							
Mechanical data Mating cycles Center contact captivation Engagement force Disengagement force ≥ 100 ≥ 5 N 19 N typical 29 N typical							
Environmental data Temperature range Thermal shock Vibration Shock Moisture resistance Climatic category Max. soldering temperature RoHS -55 °C to +155 °C MIL-STD-202, Method 107, Condition B MIL-STD-202, Method 204, Condition B MIL-STD-202, Method 213, Condition A MIL-STD-202, Method 106 IEC 60068 55/155/21 IEC 61760-1, +260 °C for 10 sec. compliant							
Tooling N/A							
Suitable cables N/A							
Weight Weight 0.3 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
Christian Janßen	07.03.11	B. Aicher	20.08.14	b00	14-1082	I. Wallner	20.08.14
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