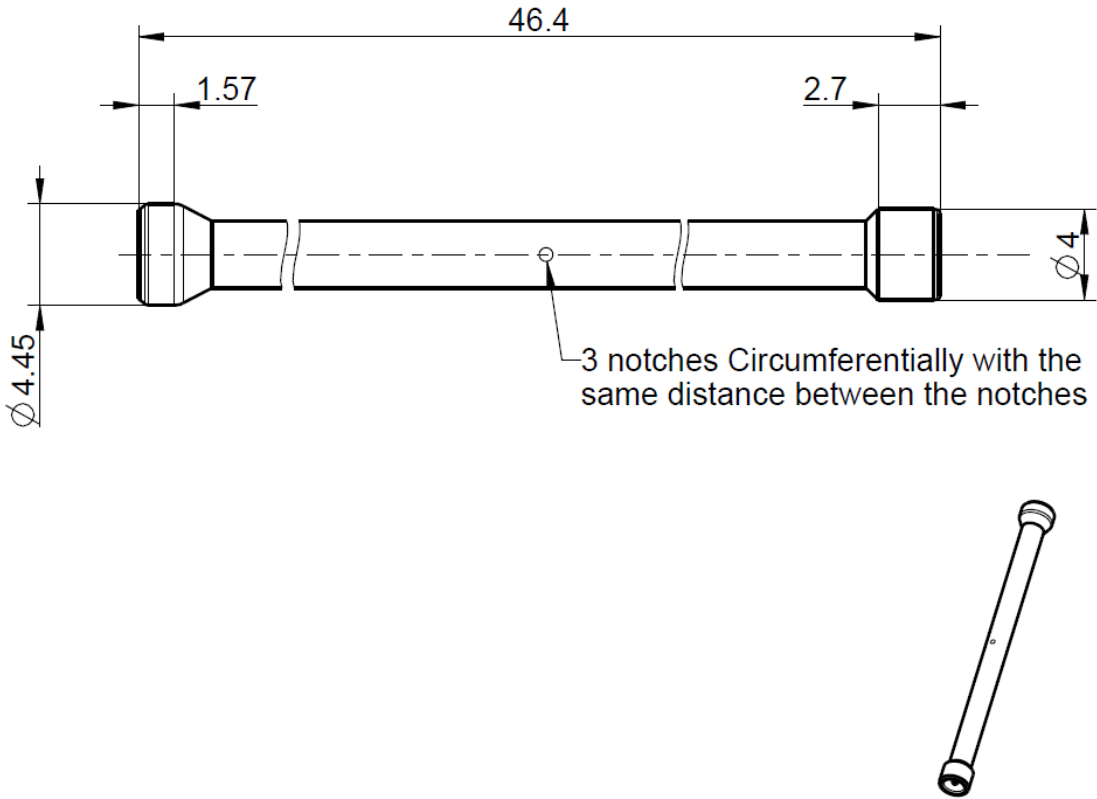


RF_35/09.14/6.2
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Technical Data Sheet		Rosenberger
EBC	Adaptor	EBCS102-S14N1
		
All dimensions are in mm; tolerances acc. to ISO 2768 m-H		
Interface		
According to		Rosenberger EBC™
Documents		
Application note		EBC
Material and plating		
Connector parts		Material
Center contact		Cu
Outer contact		Brass
Dielectric		PTFE
		Plating
		Silver ≥ 1,5 µm
		Flash white bronze over silver(e.g. Optargen®)
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
öffentlich public		Page 1 / 2

Technical Data Sheet				Rosenberger			
EBC		Adaptor		EBCS102-S14N1			
Electrical data Impedance50 Ω FrequencyDC to 10 GHz Return loss≥ 26 dB @ DC to 6 GHz* Insertion loss≤ 0.05 x √f [GHz] dB Insulation resistance≥ 5 GΩ Center contact resistance≤ 10 mΩ Outer contact resistance≤ 5 mΩ Test voltage (at sea level)500 V rms Working voltage (at sea level)335 V rms Power handling (sea level, VSWR 1.0)100 W @ 2.2 GHz @ 25°C Contact Current≤ 2A DC Screening attenuation – Interface only≥ 50 dB up to 4 GHz ≥ 40 dB @ 4 GHz to 6 GHz Crosstalk – Next / Fext≤ -70 dB @ DC to 4 GHz – B2B distance 16.8mm ≤ -60 dB @ 4 GHz to 6 GHz – B2B distance 16.8mm Intermodulation (3rd order)≥ 160 dBc (2 x 43 dBm) - Connector only, VSWR in application depends decisive on PCB layout – * Dependent on axial misalignment							
Mechanical data Mating cycles≥ 100 Center contact captivation≥ 5 N Engagement force EBC LD13 N < F < 35 N Engagement force EBC SB4 N < F < 12 N Disengagement force EBC LD3 N < F < 9 N Disengagement force EBC SB1 N < F < 2.5 N Working range1.6 mm (± 0.8 mm) Radial misalignment± 0.7 mm / max. 4° Min. B2B-distance12 mm							
Environmental data Temperature range-55 °C to +105 °C Thermal shockMIL-STD-202, Method 107, Condition B Climatic categoryIEC 61169-1, Sub-clause 9.4.5 Moisture resistanceMIL-STD-202, Method 106 VibrationMIL-STD-202, Method 204, Condition B ShockMIL-STD-202, Method 213, Condition A RoHScompliant							
Weight Weight1.62g/pc							
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. For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
L. Bombik	23.04.20	B. Aicher	20.02.24	c00	24-0066	S. Schier	20.02.24
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 2 / 2