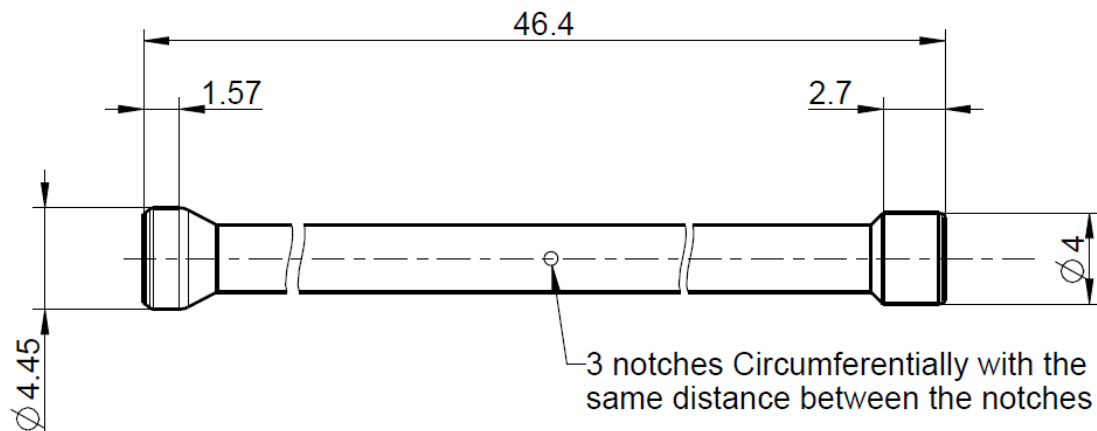




All dimensions are in mm; tolerances acc. to ISO 2768 m-H

Interface

According to

Rosenberger EBC™

Documents

Application note

EBC

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Cu
Brass
PTFE

Plating

Silver $\geq 1,5 \mu\text{m}$
Flash white bronze over silver(e.g. Optargen®)

Technical Data Sheet				Rosenberger			
EBC		Adaptor		EBCS102-S14N1			
Electrical data Impedance Frequency Return loss Insertion loss Insulation resistance Center contact resistance Outer contact resistance Test voltage (at sea level) Working voltage (at sea level) Power handling (sea level, VSWR 1.0) Contact Current Screening attenuation – Interface only Crosstalk – Next / Fext Intermodulation (3rd order) 50 Ω DC to 10 GHz ≥ 26 dB @ DC to 6 GHz* ≤ 0.05 x √f [GHz] dB ≥ 5 GΩ ≤ 10 mΩ ≤ 5 mΩ 500 V rms 335 V rms 100 W @ 2.2 GHz @ 25°C ≤ 2A DC ≥ 50 dB up to 4 GHz ≥ 40 dB @ 4 GHz to 6 GHz ≤ -70 dB @ DC to 4 GHz – B2B distance 16.8mm ≤ -60 dB @ 4 GHz to 6 GHz – B2B distance 16.8mm ≥ 160 dBc (2 x 43 dBm) - Connector only, VSWR in application depends decisive on PCB layout – * Dependent on axial misalignment							
Mechanical data Mating cycles Center contact captivation Engagement force EBC LD Engagement force EBC SB Disengagement force EBC LD Disengagement force EBC SB Working range Radial misalignment Min. B2B-distance ≥ 100 ≥ 5 N 13 N < F < 35 N 4 N < F < 12 N 3 N < F < 9 N 1 N < F < 2.5 N 1.6 mm (± 0.8 mm) ± 0.7 mm / max. 4° 12 mm							
Environmental data Temperature range Thermal shock Climatic category Moisture resistance Vibration Shock RoHS -55 °C to +105 °C MIL-STD-202, Method 107, Condition B IEC 61169-1, Sub-clause 9.4.5 MIL-STD-202, Method 106 MIL-STD-202, Method 204, Condition B MIL-STD-202, Method 213, Condition A compliant							
Weight Weight 1.62g/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