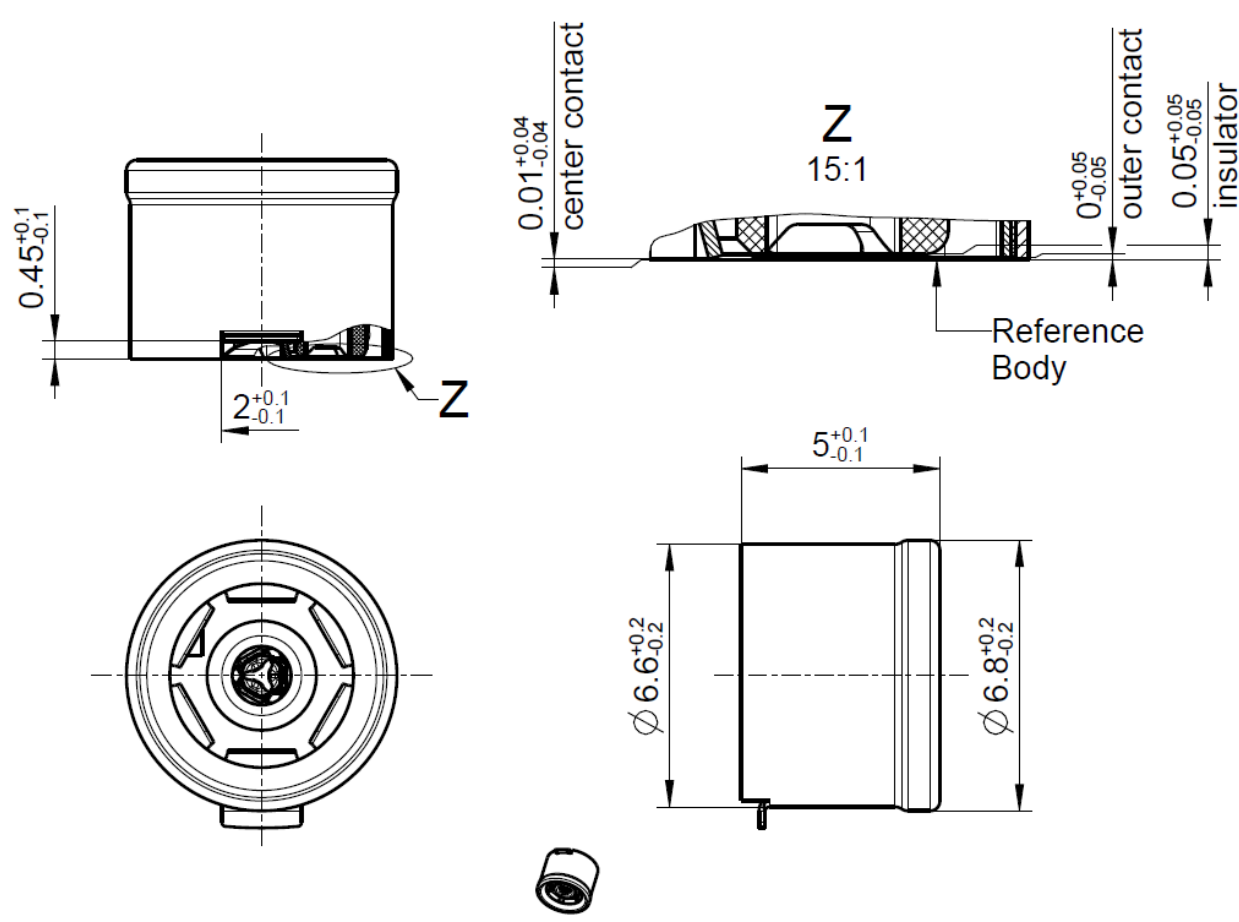


Technical Data Sheet		Rosenberger
EBC	Straight Jack PCB Microstrip Design	EBCK11T-40MN5
 All dimensions are in mm Interface According to Rosenberger EBC ® Documents PCB Layout Application note B 730D EBC Material and plating Connector parts Center contact Outer contact Body Dielectric Material CuBe or equiv. Spring bronze Brass LCP Plating AuroDur®, gold plated White bronze(e.g. Optalloy®) Tin, 2-4 µm		
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

Technical Data Sheet				Rosenberger			
EBC		Straight Jack PCB Microstrip Design		EBCK11T-40MN5			
Electrical data							
Impedance		50 Ω					
Frequency		DC 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 (3 rd 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 LD		13 N < F < 35 N					
Engagement force EBC SB		4 N < F < 12 N					
Disengagement force EBC LD		3 N < F < 9 N					
Disengagement force EBC SB		1 N < F < 2.5 N					
Working range		1.6 mm (± 0.8 mm)					
Radial misalignment		± 0.7 mm / max. 4°					
Min. B2B-distance		12 mm					
Environmental data							
Temperature range		-55 °C to +105 °C					
Thermal shock		MIL-STD-202, Method 107, Condition B					
Moisture resistance		MIL-STD-202, Method 106					
Vibration		MIL-STD-202, Method 204, Condition B					
Shock		MIL-STD-202, Method 213, Condition A					
Max. soldering temperature		IEC 61760-1, +260°C for 10 sec.					
RoHS		compliant					
Weight							
Weight		0,25 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. For the installation of the electrotechnical equipment, particular electrotechnical expertise is required. 							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Schmid	08.07.19	B. Aicher	07.10.24	a01	24-1760	S. Schier	07.10.24
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