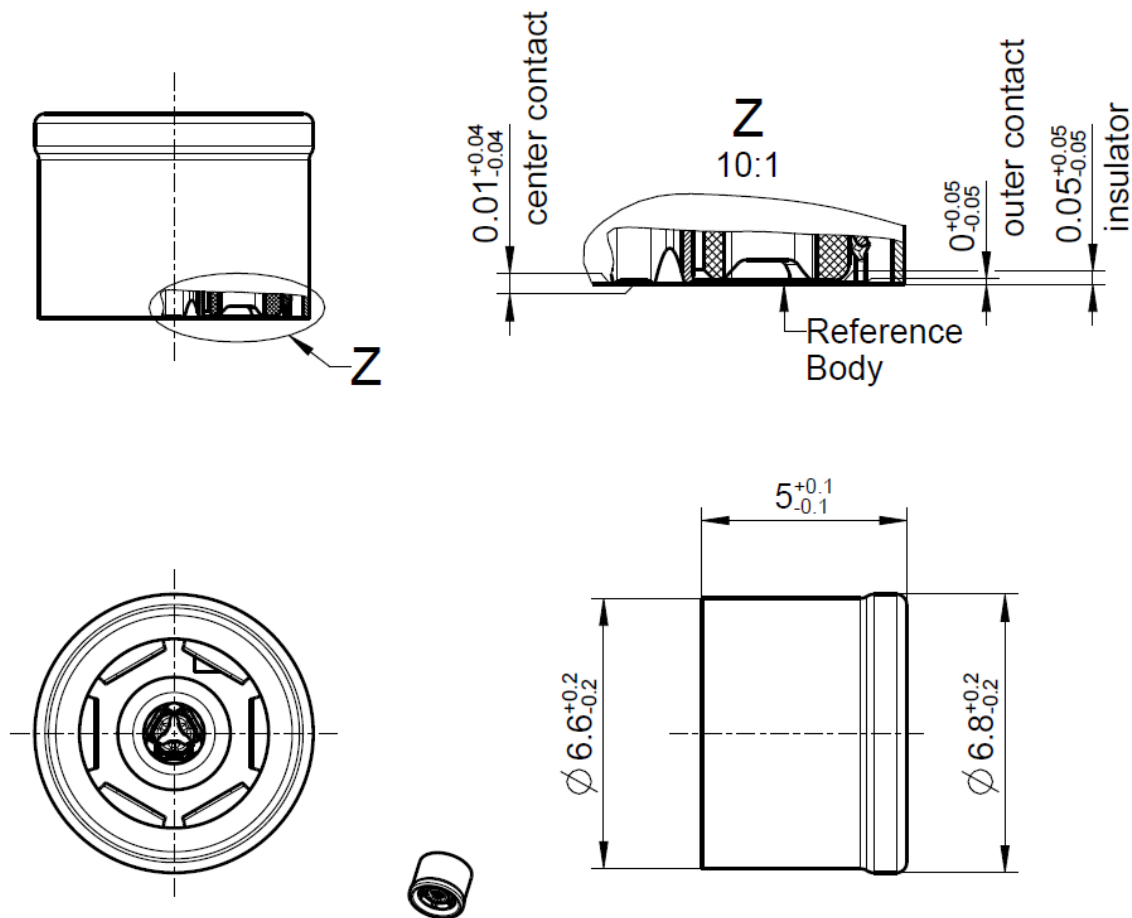


Technical Data Sheet

Rosenberger

EBC

Straight Jack PCB

EBCK111-40MN5

All dimensions are in mm

Interface

According to

Rosenberger EBC ®

Documents

PCB Layout

Application note

B 730K / B 730E

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

Technical Data Sheet				Rosenberger			
EBC		Straight Jack PCB		EBCK111-40MN5			
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 Moisture resistance Vibration Shock Max. soldering temperature RoHS -55 °C to +105 °C MIL-STD-202, Method 107, Condition B MIL-STD-202, Method 106 MIL-STD-202, Method 204, Condition B MIL-STD-202, Method 213, Condition A IEC 61760-1, +260°C for 10 sec. compliant							
Weight Weight 0,28 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
Huppenberger	15/07/19	B. Aicher	07.10.24	a01	24-1760	S. Schier	07.10.24
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