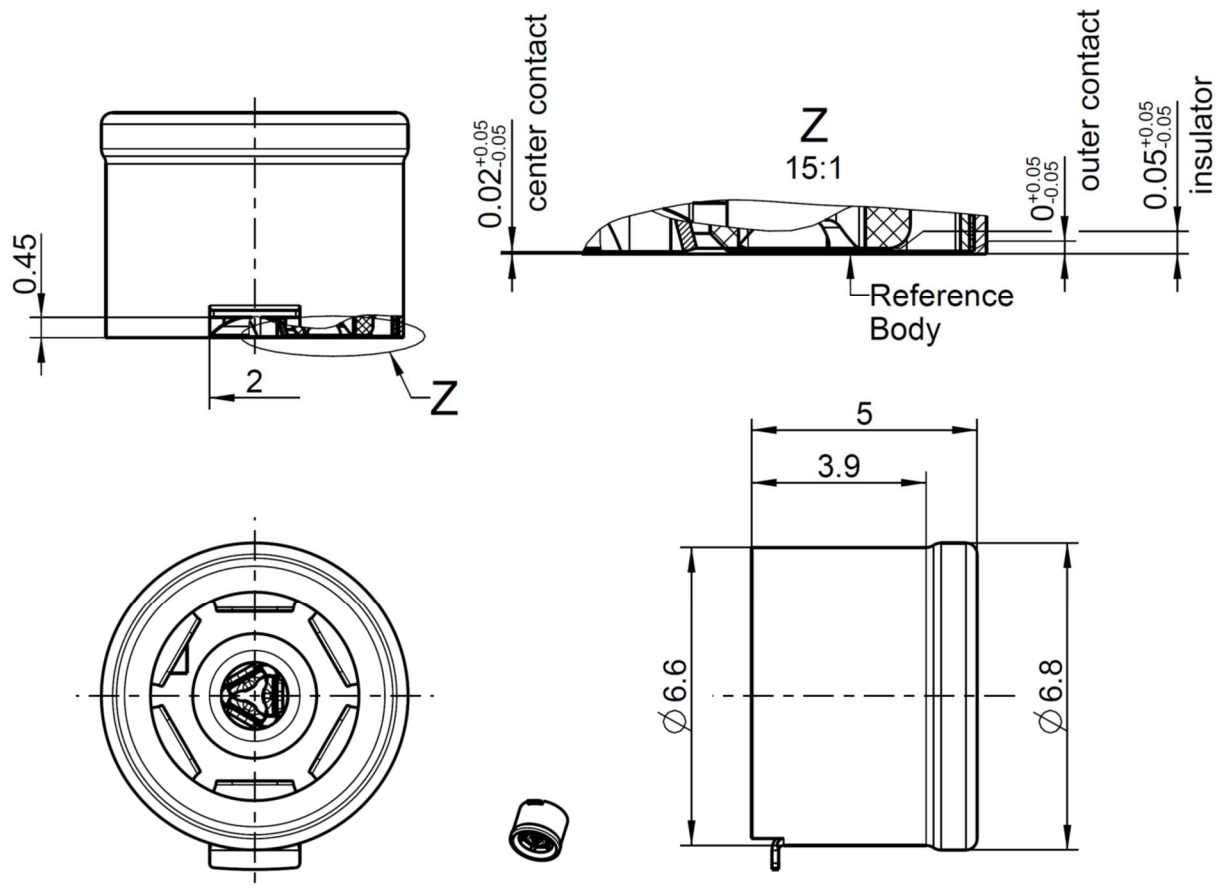


EBC

Straight Jack PCB
Microstrip Design

EBCK11T-40MN5



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

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

Spring bronze
Spring bronze
Brass
LCP

Plating

AuroDur®, gold plated
White bronze(e.g. Optalloy®)
Tin, 2-4 µm

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RF_35/09;14/6.2

Electrical data

Impedance	50 Ω
Frequency	DC to 8 GHz
Return loss	≥ 26 dB @ DC to 6 GHz*
Insertion loss	≤ 0.05 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ (tbd)
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage (at sea level)	500 V rms (tbd)
Working voltage (at sea level)	335 V rms (tbd)
Power handling (sea level, VSWR 1.0)	100 W @ 2.2 GHz @ 25°C (tbd)
Contact Current	≤ 2A DC
RF leakage – Interface only	≥ 50 dB up to 4 GHz
Crosstalk – Next / Fext	≥ 70 dB up to 4 GHz
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 (tbd)
Center contact captivation	≥ 5 N
Engagement force	≤ 15N
Disengagement force	≤ 12N
Working range	1.6 mm (± 0.8 mm)
Radial misalignment	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
Climatic category	IEC 61169-1, Sub-clause 9.4.5 (+155 °C, 250 hours) (tbd)
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
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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
M. Schmid	08.07.19	C_Schmidinger	09.08.19	201	19-0004	Tobias Stadler	09.08.19
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							Page 2 / 2

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