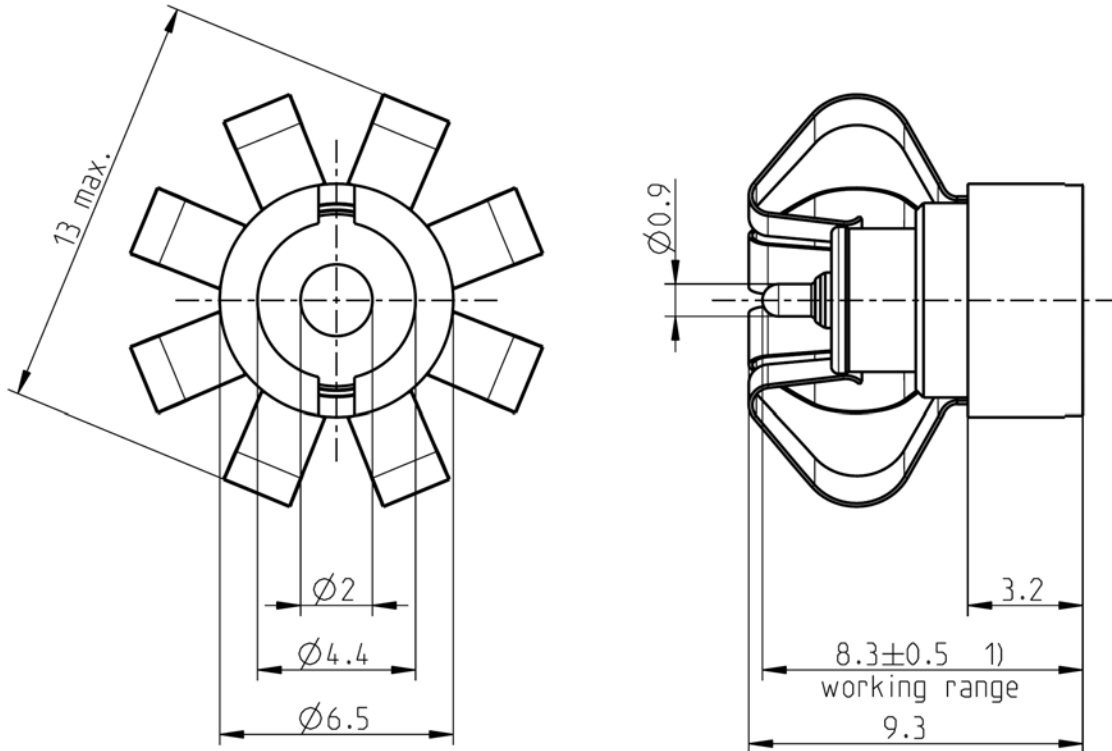


EIC

Board to board
connector system with
spring loaded center pin

B2BF101-001B5



All dimensions are in mm; tolerances acc. to ISO 2768 m-H
1) deflection of PCB in the zone of working range permissible

Interface

According to Rosenberger B2B

Documents

Panel piercing – Landing Pad B 444
Panel piercing B 441

Material and plating

Connector parts

Center contact	Brass
Outer contact	Brass
Contact spring	CuBe
Dielectric	PTFE

Plating

AuroDur®, gold plated
Silver, 3-6 µm
Silver, 3-6 µm

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/05_10/6.0

EIC

Board to board
connector system with
spring loaded center pin

B2BF101-001B5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 25 dB @ DC to 3.5 GHz ≥ 23 dB @ 3.5 GHz to 7 GHz
Insertion loss	≤ 0.05 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	130 W @ 2.7 GHz
Screening Attenuation	80 dB up to 4 GHz

- Connector only, VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles	≥ 100
Center contact captivation	≥ 7 N
Contact force working range	4- 12 N
Working range (axial misalignment)	1mm
Radial misalignment	± 0.6 mm

Environmental data

Temperature range	-65 °C to +165 °C
Rapid change of temperature	IEC 60068-2-14 (-65 °C to 165 °C, 1h dwell, 50 cycles)
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
Damp heat	IEC 60068-2-78 (40°C, 93% RH, 56d)
High temperature endurance	IEC 61169-1, Sub-clause 9.6 (+165 °C, 1000 hours)
Max. soldering temperature	IEC 61760-1, +260 °C for 10 sec.
RoHS	compliant

Tooling

N/A

Weight

Weight 0.90 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Weidensp. R.	11.09.12	B. Aicher	01.06.17	400	17-0003	Fl. Öllerer	01.06.17
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	