



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

**Interface**

According to Rosenberger B2B-VIA

**Documents**

Panel piercing B 567

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric inner  
Dielectric outer

**Material**

CuBe or equiv.  
CuBe or equiv.  
LCP  
PA

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated

VIA

Straight Jack PCB

**B2BK101-400L5**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss*	36 dB typ. @ DC to 2.5 GHz 35 dB typ. @ 2.5 GHz to 4 GHz 32 dB typ. @ 4 GHz to 6 GHz
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6 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)	260 W @ 2.2 GHz (at 20 °C) (tbd) 160 W @ 2.2 GHz (at 100°C) (tbd) 130 W @ 2.7 GHz (at 100°C) (tbd)
Contact Current	≤ 2A DC
Screening Attenuation	≥ 70 dB up to 6 GHz

- Connector only, VSWR in application depends decisive on PCB layout –  
\* depending on the axial misalignment

**Mechanical data**

Mating cycles	≥ 100
Center contact captivation	≥ 7 N
Disengagement force	Δ 5N (between Limited Detent and Smooth Bore)
Working range	2 mm (± 1 mm)
Radial misalignment	± 0.6 mm / 4° (tbd)
Pitch	≥ 6.5 mm

**Environmental data**

Temperature range	-55 °C to +125 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Climatic category	IEC 61169-1, Sub-clause 9.4.5 (+155 °C, 250 hours)
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	0,32 g/pc (tbd)
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
B. Aicher	20.10.15	B. Aicher	08.09.16	400	16-v344	A_Wallner	08.09.16
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