



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

Interface

According to

Rosenberger B2B-VIA

Documents

Panel piercing
Application note

B 515 / B 515A
VIA

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

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	≤ 0.03 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)	100 W @ 2.2 GHz (at 25 °C)
Contact Current	≤ 2 A 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	Limited Detent typ. 15 N Smooth Bore typ. 5 N
Engagement force	Limited Detent typ. 20 N Smooth Bore typ. 12 N
Pitch	≥ 6.8 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	0,27 g/pc e
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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
B. Aicher	13.07.15	C_Schmidinger	28.05.18	a00	18-s193	A_Wallner	28.05.18
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