



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

**Interface**

According to IEC 61169-50

**Documents**

PCB layout B 30b

**Material and plating**

**Connector parts**

Center contact	CuBe
Outer contact	Brass
Body	Brass
Dielectric	PTFE

**Plating**

AuroDur®, gold plated  
 Gold, min. 0.15 µm, over chemical nickel  
 Gold, min. 0.15 µm, over chemical nickel

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 3 GHz ≥ 22 dB, 3 to 6 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB, DC to 6 GHz
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage, at sea level, 50Hz	1000 V rms
Working voltage, at sea level, 50Hz	480 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 70 dB up to 6 GHz
Intermodulation (3 <sup>rd</sup> order)	≤ -120 dBc @ 2 x 20 W
Power handling (VSWR=1.0; ambient temp. 25°C)	≤ 200 W @ 0.8 GHz ≤ 150 W @ 1.9 GHz ≤ 140 W @ 2.1 GHz

- VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	min. 100
Center contact captivation: axial	≥ 20 N
radial	≥ 1 Ncm
Engagement force	typ. 25 N
Disengagement force	typ. 20 N
Retention force for interface	60 N min.

**Environmental data**

Temperature range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
Max. solder temperature	+250°C (IEC 61760-1, 260°C for 10 sec.)
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 1.5 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.



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