



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  
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**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

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For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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Inge Mühlauer	05.10.04	Chr. Janßen	02.11.20	g00	20-1927	S. Huber-Siegl	02.11.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2