



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

Interface

Mechanically compatible with RPC-1.85

Documents

PCB layout B 208

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric 1
- Dielectric 2
- Screws

Material

- Beryllium copper
- Brass
- PEEK
- PTFE
- Stainless steel

Plating

- Gold, min. 1.27 µm, over chemical nickel
- Gold, min. 0.8 µm, over chemical nickel

Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss	≥ 12 dB, DC to 50 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 4.0 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Return loss in application depends decisive on PCB layout -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.

2002/95/EC (RoHS) compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	50 pcs in blister
Weight	4.7 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
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