



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

**Interface**

RPC-2.92 mechanically compatible with SMP according to

RPC-3.50 and SMA MIL-STD-348A, Fig. 326

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact RPC-2.92
- Outer contact SMP
- Coupling nut
- Dielectric
- Gasket

**Material**

- Beryllium copper
- Stainless steel
- Beryllium copper
- Stainless steel
- PEEK
- Silicone

**Plating**

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

**Electrical data**

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 32 dB, DC to 12 GHz ≥ 26 dB, 12 GHz to 26.5 GHz ≥ 21 dB, 26.5 GHz to 40 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-2.92	≤ 3.0 mΩ
Outer contact resistance RPC-2.92	≤ 2.0 mΩ
Center contact resistance SMP	≤ 6.0 mΩ
Outer contact resistance SMP	≤ 2.0 mΩ
Test voltage	500 V rms
Working voltage	250 V rms

**Mechanical data**

Mating cycles	≥ 500
Center contact captivation	≥ 22 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Engagement force SMP:	
- full detent	68 N max.
- limited detent	45 N max.
- smooth bore	9 N max.
Disengagement force SMP:	
- full detent	22 N min.
- limited detent	9 N min.
- smooth bore	2.2 N min.

**Environmental data**

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
2002/95/EC (RoHS)	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in box
Weight	9.2 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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