



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

**Interface**

RPC-2.92 according to  
RPC-2.92 mechanically compatible with  
MINI-SMP according to

IEC 61169-35  
RPC-3.50 and SMA  
MIL-STD-348A, Fig. 328  
Mateable with GPPO™ (Gilbert Engineering Co., Inc.)  
and SSMP™ (Connectors Devices, Inc.)

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact RPC-2.92  
Outer contact MINI-SMP  
Dielectric 1  
Dielectric 2

**Material**

Beryllium copper  
Stainless steel  
Beryllium copper  
PS  
PTFE

**Plating**

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

**Electrical data**

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 30 dB, DC to 12 GHz ≥ 26 dB, 12 GHz to 20 GHz ≥ 18 dB, 20 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 MINI-SMP	≤ 6.0 mΩ
Outer contact resistance MINI-SMP	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	250 V rms

**Mechanical data**

Mating cycles RPC-2.92	≥ 500
Mating cycles MINI-SMP	
- if mating part is smooth bore	≥ 500
- if mating part is full detent	≥ 100
Center contact captivation	≥ 20 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Engagement force MINI-SMP	
- if mating part is smooth bore	11 N max.
- if mating part is full detent	19 N max.
Disengagement force MINI-SMP	
- if mating part is smooth bore	11 N max.
- if mating part is full detent	29 N max.

**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
RoHS	compliant

**Tooling**

N/A

**Packing**

Standard	1 pce in box
Weight	6.7 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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