



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

**Interface**

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

IEC 61169-35  
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  
Dielectric

**Material**

CuBe  
Stainless steel  
CuBe  
PEEK

**Plating**

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

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RF\_35/06.13/6.1

**Electrical data**

Frequency range	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

**Mechanical data**

Mating cycles RPC-2.92	≥ 500
Mating cycles SMP	
- if mating part is Smooth bore, Catcher´s Mitt	≥ 1000
- if mating part is Limited detent	≥ 500
- if mating part is Full detent	≥ 100
Center contact captivation RPC-2.92	≥ 20 N
Center contact captivation SMP	≥ 7 N
Engagement force SMP	
- Smooth bore, Catcher´s Mitt	≤ 9 N
- Limited detent	≤ 45 N
- Full detent	≤ 68 N
Disengagement force SMP	
- Smooth bore, Catcher´s Mitt	≥ 2.2 N
- Limited detent	≥ 9 N
- Full detent	≥ 22 N
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Gauge RPC-2.92	0.00 mm to 0.08 mm
Gauge SMP	0.00 mm to 0.05 mm

**Environmental data**

Operating temperature range <sup>1</sup>	+20 °C to +26 °C
Storage temperature range	0 °C to +50 °C
RoHS	compliant

<sup>1</sup> Temperature range over which these specifications are valid.

**Packing**

Standard	1 pce in box
Weight	8.4 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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