



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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

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 ¹	+20 °C to +26 °C
Storage temperature range	0 °C to +50 °C
RoHS	compliant

¹ 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
Herbert Babinger	19.07.04	O. Krautenbacher	28.08.13	d00	13-0890	Manuela Fuehrich	28.08.13
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : info@rosenberger.de			Page 2 / 2