



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

Interface

According to
Mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA

Documents

Assembly instruction

02 A5

Material and plating

Connector parts

- Center contact
- Outer contact
- Coupling nut
- Dielectric
- Gasket

Material

- CuBe
- CuBe or equiv.
- Stainless steel
- PS
- Silicone

Plating

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

RPC-2.92

Straight plug

02S141-271E4

Electrical data

Impedance 50 Ω
 Frequency DC to 43.5 GHz
 Return loss ≥ 30 dB, DC to 4 GHz
 ≥ 22 dB, 4 GHz to 32 GHz
 ≥ 20 dB, 32 GHz to 43.5 GHz
 Insertion loss ≤ 0.04 x √f(GHz)dB
 Insulation resistance ≥ 5 GΩ
 Proof voltage (at sea level) 750 V rms
 Working voltage (at sea level) 250 V rms
 RF-leakage ≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles ≥ 500
 Coupling test torque 1.70 Nm
 Coupling torque recommended 0.80 Nm to 1.10 Nm

Environmental data

Temperature range -40 °C to +85 °C
 Thermal shock MIL-STD-202, Meth. 107, Cond. B
 Corrosion MIL-STD-202, Meth. 101, Cond. B
 Vibration MIL-STD-202, Meth. 204, Cond. D
 Shock MIL-STD-202, Meth. 213, Cond. I
 Moisture resistance MIL-STD-202, Meth. 106
 RoHS compliant

Tooling

N/A

Suitable cables

UT 85, RG 405 /U, RTK-FS 085

Weight

2.6 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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

RFB00035/12.2016.4

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Babinger	04.10.05	S. Andorfer	04.02.22	f00	22-0223	S. Schmid	03.02.22

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 2 / 2
--	--	--	--	--	--	--	---------------