



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

Interface

According to IEC 61169-35
 Mechanically compatible with RPC-3.50 and SMA

Documents

Assembly instruction 02A14

Material and plating

Connector parts

Center contact	Material CuBe or equiv.	Plating AuroDur®, gold plated
Outer contact	Brass	AuroDur®, gold plated
Coupling nut	Stainless steel	Passivated
Dielectric	PTFE	
Gasket	Silicone	

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RF_35/05:10/6.1

RPC-2.92

Straight Plug

02S14E-270L5

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 21 dB, DC to 20 GHz ≥ 19 dB, 20 GHz to 40 GHz
Insertion loss	≤ 0.04 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	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
Center contact captivation	≥ 20 N
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm

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

Suitable cables

RTK 047, UT 047

Weight

2.8 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
Martin Moder	22.03.16	Roland Neuhauser	13.02.19	a00	19-s056	M.Ruf	13.02.19

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