



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

Interface

RPC-3.50 side according to	IEC 60169-23
RPC-3.50 side mechanically compatible with	RPC-2.92 and SMA
7/16 side according to	IEC 60169-4, VG 95250, CECC 22190, DIN 47223

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-3.50 side
Outer contact 7/16 side
Flange
Dielectric 1
Dielectric 2

Material

CuBe, or equivalent
Stainless steel
Brass
Brass
PP
PTFE

Plating

AuroDur®, gold plated
Passivated
Silver, 3-6 µm
Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω
Frequency	DC to 3 GHz
Return loss	≥ 23 dB, DC to 3 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-3.50	≤ 3.0 mΩ
Outer contact resistance RPC-3.50	≤ 2.0 mΩ
Center contact resistance 7/16	≤ 0.4 mΩ
Outer contact resistance 7/16	≤ 1.5 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles 7/16	≥ 1000
Center contact captivation	≥ 27 N
Coupling test torque RPC-3.50	1.70 Nm
Recommended torque RPC-3.50	0.80 Nm to 1.10 Nm
Misalignment: radial	0.55 mm min.
Spring force	min. 33 N at rest max. 62 N at max. spring travel
Spring travel	7 mm 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 2002/95/EC (RoHS)	MIL-STD-202, Method 106 compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	105 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
A. König	05/11/07	Martin Moder	20/08/12	b00	12-0192	Georg Schiele	20/08/12