



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

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
QMA similar to

IEC 60169-23
RPC-2.92 and SMA
Rosenberger 28S000-000, series QMA
Rosenberger is an authorised QLF® manufacturer

Documents

N/A

Material and plating

Connector parts

- Center contact
- Outer contact
- Flange
- Dielectric

Material

- Beryllium copper
- Stainless steel
- Brass
- PS

Plating

- Gold, min. 1.27 µm, over chemical nickel
- Passivated
- Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 40 dB, DC to 2.5 GHz ≥ 28 dB, 2.5 GHz to 6 GHz ≥ 24 dB, 6 GHz to 18 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 QMA	≤ 3.0 mΩ
Outer contact resistance QMA	≤ 2.5 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles QMA	≥ 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
Engagement force QMA	N/A
Disengagement force QMA	N/A
Retention force for QMA interface	N/A
Misalignment: radial	0.7 mm min.
Spring force	min. 8 N at rest max. 15 N at max. spring travel
Spring travel	2.3 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	10.8 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
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