



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  
QLF® (Quick Lock Formula)  
Rosenberger is an authorized QLF® manufacturer

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Flange
- Dielectric

**Material**

- CuBe
- Stainless steel
- Brass
- PS

**Plating**

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

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

RF\_35/09.14/6.2

**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
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	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 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	MIL-STD-202, Method 106
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**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
H. Babinger	28.09.04	F. Reiner	26.06.18	e01	18-1026	M. Ruf	25.06.18

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2
--	--	--	--	--	--	--	---------------