



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

**Interface**

According to

Rosenberger 28K000-000, series QMA

Rosenberger is an authorised QLF® manufacturer

**Documents**

PCB layout

B 30b

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Body
- Dielectric

**Material**

- CuBe
- Brass
- Brass
- PTFE

**Plating**

- AuroDur, gold plated
- White bronze(e.g. Optalloy®)
- AuroDur, gold plated

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 32 dB, DC to 3 GHz ≥ 25 dB, 3 to 6 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB, DC to 6 GHz
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage, at sea level, 50Hz	1000 V rms
Working voltage, at sea level, 50Hz	480 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 70 dB up to 6 GHz
Intermodulation (3 <sup>rd</sup> order)	≤ -120 dBc @ 2 x 20 W

- VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	min. 100
Engagement force	typ. 25 N
Disengagement force	typ. 20 N
Retention force for interface	60 N min.

**Environmental data**

Temperature range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
Max. solder temperature	+250°C (IEC 61760-1, 260°C for 10 sec.)
2002/95/EC (RoHS)	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	100 pcs in blister
Weight	3.9 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
Inge Mühlauer	05/10/04	Krautenb. J.	23/10/07	e00	07-0011	Krautenb. J.	23/10/07
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 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2