



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 144

Material and plating

Non-magnetic version

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric

Material

- Beryllium copper
- Spring bronze
- Spring bronze
- PTFE

Plating

- AuroDur, gold plated
- AuroDur, gold plated
- 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 ³ 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 rd order)	≤ -120 dBc @ 2 x 20 W
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2,5 GHz

- 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.)
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	50 pcs in blister
Weight	6,2 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
Michelmann Folke	17.01.06	C. Kainzmaier	07.06.18	300	18-0940	M. Margardt	07.06.18

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