



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 x 10 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 |

- 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

Weight

| | |
|--------|-----------|
| 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 | Sa. Krautenbacher | 13.03.14 | f00 | 14-0352 | T. Krojer | 13.03.14 |
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