



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

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric

Material

Beryllium copper
Brass
Brass
PTFE

Plating

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

ADAPTOR
QMA JACK -JACK**28K101-K00N5****Electrical data**

| | |
|-----------------------------------------|-------------------------------------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 32 dB, DC to 3 GHz ≥ 28 dB, 3 to 6 GHz |
| Insertion loss | ≤ 0.05 x $\sqrt{f(\text{GHz})}$ 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 |

Mechanical data

| | |
|-----------------------------------|-----------|
| Mating cycles | min. 100 |
| Center contact captivation: axial | ≥ 20 N |
| 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) |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 3.2 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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|----------|------|--------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Inge Mühlauer | 05/10/04 | Sa. Krautenbacher | 13.03.14 | d00 | 14-0352 | T. Krojer | 13.03.14 |
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