



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

Interface

| | | |
|--------------|----------|--|
| According to | N side | IEC 60169-16, MIL-PRF-39012, CECC 22210 |
| | QMA side | Rosenberger 28K000-000, series QMA |
| | | Rosenberger is an authorised QLF® manufacturer |

Documents

N/A

Material and plating

Connector parts

| | | |
|----------------|------------------|--|
| Center contact | Material | Plating |
| Outer contact | Beryllium copper | AuroDur, gold plated |
| Body | Brass | Flash white bronze over silver(e.g. Optargen®) |
| Dielectric | Brass | Flash white bronze over silver(e.g. Optargen®) |
| | PTFE | |

**Adaptor
QMA Jack - N Jack**

28K153-K00N5

Electrical data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 11 GHz |
| Return loss | ≥ 32 dB, DC to 3 GHz ≥ 21 dB, 3 to 8 GHz |
| Insertion loss | ≤ 0.05 dB |
| Insulation resistance | ≥ 5 x10 ³ MΩ |
| Center contact resistance | ≤ 1 mΩ |
| Outer contact resistance | ≤ 0.25 mΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 480 V rms |
| RF-leakage | ≥ 95 dB up to 2 GHz |
| Intermodulation (3 rd order) | ≤ -130 dBc @ 2 x 20 W, 1800 MHz |

Mechanical data

| | | |
|-----------------------------------|--------------------|----------------------|
| Mating cycles | N side min. 500 | QMA side min. 100 |
| Center contact captivation: axial | ≥ 28 N | ≥ 28 N |
| Coupling test torque | max. 1.7 Nm | N/A |
| Recommended torque | 0.7 Nm to 1.1 Nm | N/A |
| Engagement force | N/A | typ. 25N |
| Disengagement force | N/A | typ. 20N |
| Retention force for interface | N/A | 60N 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 |

Weight

| | |
|--------|----------|
| Weight | 27 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 |
|--|----------|-------------------|----------|------|--|-----------|---------------|
| Schmid Markus | 20/03/06 | Sa. Krautenbacher | 13.03.14 | d00 | 14-0352 | T. Krojer | 13.03.14 |
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