



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

**Interface**

According to

IEC 61169-4, EN 122190, DIN 47223

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Dielectric

**Material**

- CuBe or equiv.
- Brass
- PTFE

**Plating**

- Silver, 3-6 µm
- Flash white bronze over silver(e.g. Optargen®)

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.0

7-16

Adaptor  
Jack - Jack

**60K101-KIMN1**

**Electrical data**

|  |  |
|--|--|
| Impedance                                      | 50 Ω   |
| Frequency                                      | DC to 7.5 GHz  |
| Return loss                                    | ≥ 40 dB @ DC to 3GHz<br>≥ 35 dB @ 3 GHz to 4.5 GHz<br>≥ 30 dB @ 4.5 GHz to 8.3 GHz |
| Insertion loss                                 | ≤ 0.05 x √f [GHz] dB   |
| Insulation resistance                          | ≥ 10 GΩ  |
| Center contact resistance                      | ≤ 0.4 mΩ   |
| Outer contact resistance                       | ≤ 1.5 mΩ   |
| Working voltage (at sea level)                 | 500 V rms  |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 1800 W @ 1 GHz<br>800 W @ 4 GHz  |
| RF-leakage                                     | ≥ 128 dB @ DC to 1 GHz   |
| Intermodulation (3 <sup>rd</sup> order)        | ≤ -128 dBm @ 2 x 20 W  |

**Mechanical data**

|                                   |             |
|-----------------------------------|-------------|
| Mating cycles                     | ≥ 500       |
| Center contact captivation: axial | ≥ 200 N     |
| radial                            | ≥ 2 Ncm     |
| Coupling torque (recommended)     | 25 to 30 Nm |
| Proof torque                      | ≤ 35 Nm     |

**Environmental data**

|                                   |   |
|-----------------------------------|---|
| Temperature range                 | -55 °C to +155 °C                           |
| Rapid change of temperature       | DIN EN 122190, Sub-clause 4.6.7             |
| Corrosion resistance              | DIN EN 122190, Sub-clause 4.6.10            |
| Vibration                         | DIN EN 122190, Sub-clause 4.6.3             |
| Climatic category                 | DIN EN 122190, Sub-clause 4.6.5 (55/155/56) |
| Damp heat                         | DIN EN 122190 , Sub-clause 4.6.6            |
| Degree of protection (mated pair) | IEC 60529, IP68 2.5 bar 1h                  |
| RoHS                              | compliant                                   |

**Weight**

|        |          |
|--------|----------|
| Weight | 60 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          |
|--|----------|-------------|----------|------|---------------------------|--|---------------|
| Benjamin Kaindl  | 15.03.12 | J_Gramsamer | 01.04.15 | c00  | 15-0397                   | J_Krautenb.  | 01.04.15      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |             |          |      |                           | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |               |
|  |          |             |          |      |                           |  | Page<br>2 / 2 |