



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
- Gasket

**Material**

- CuBe or equiv.
- Brass
- PTFE
- Silicone

**Plating**

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

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RF\_35/05.10/6.0

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Adaptor  
Plug - Jack

**60S101-KIMN1**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 7.5 GHz
Return loss	≥ 40 dB @ DC to 3 GHz ≥ 35 dB @ 3 GHz to 4.5 GHz ≥ 30 dB @ 4.5 GHz to 7.5 GHz ≥ 25 dB @ 7.5 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 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
Coupling nut retention	≥ 1000 N
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	106.5 g/pce
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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