



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

Interface

According to IEC 61169-35
 Mechanically compatible with RPC-3.50 and SMA

Documents

Assembly instruction 02A14

Material and plating

Connector parts

Center contact	Material CuBe or equiv.	Plating AuroDur®, gold plated
Outer contact	Brass	AuroDur®, gold plated
Coupling nut	Stainless steel	Passivated
Dielectric	PTFE	
Gasket	Silicone	

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RF_35/05:10/6.1

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 21 dB, DC to 20 GHz ≥ 19 dB, 20 GHz to 40 GHz
Insertion loss	≤ 0.04 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Tooling

N/A

Suitable cables

RTK 047, UT 047

Weight

2.8 g/pce

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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