



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

Interface

According to

Rosenberger EBC™

Documents

Application note

EBC

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric

Material

- Cu
- Brass
- PTFE

Plating

- AuroDur®, gold plated
- Flash white bronze over silver(e.g. Optargen®)

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RF_35/09.14/6.2

Electrical data

Impedance	50 Ω
Frequency	DC to 8 GHz
Return loss	≥ 26 dB @ DC to 6 GHz ¹⁾
Insertion loss	≤ 0.05 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	335 V rms
Power handling (sea level, VSWR 1.0)	100 W @ 3.5 GHz @ 105°C ²⁾
Contact Current	≤ 2A DC
Screening attenuation - Interface	≥ 50 dB up to 4 GHz
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm)

1) Dependent on axial misalignment

2) Power value is dominated by the application

Mechanical data

Mating cycles	≥ 50
Center contact captivation	≥ 5 N
Engagement force	
-Limited detent	≤ 35N (typ.30N)
-smooth bore	≤ 12N
Disengagement force	
-Limited detent	≤ 12N
-smooth bore	≤ 5N
Working range	1.6 mm (± 0.8 mm)
Radial misalignment	max. 4°
Pitch	≥ 6.9 mm

Environmental data

Temperature range	-55 °C to +105 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Climatic category	IEC 61169-1, Sub-clause 9.4.5
Moisture resistance	MIL-STD-202, Method 106
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
RoHS	compliant

Weight

Weight	0.55g/pc (tbd)
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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