



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

Interface

According to Rosenberger P-SMP

Documents

Assembly instruction 119 B2

Material and plating

Connector parts

Center contact	CuBe
Outer contact	CuBe
Body	Brass
Dielectric	PTFE
Crimping ferrule	Copper

Plating

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

Tooling

Crimping tool	11W-150-000
Crimp insert	11W-150-102

Suitable cables

RG 316-d; RG 179 B/U-d

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Technical Data Sheet

Rosenberger

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119K207-303N5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 26 dB, DC to 2 GHz ≥ 23 dB, 2 to 6 GHz
Insertion loss	≤ 0.03 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2.2 GHz
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm)

Limitations are possible due to the applied cable type

Mechanical data

Mating cycles	
if mating part is Smooth bore, Catchers mitt	≥ 1000
if mating part is Limited detent	≥ 100
if mating part is Full detent	≥ 100
Center contact captivation: axial	≥ 7 N
Engagement force:	
- Smooth bore, Catchers mitt	≤ 10 N
- Limited detent	≤ 45 N
- Full detent	≤ 68 N
Disengagement force:	
- Smooth bore, Catchers mitt	≥ 2.2 N
- Limited detent	≥ 15 N
- Full detent	≥ 25 N
Permissible angular misalignment	4°

Environmental data

Temperature range	-65°C to +165°C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
High temperature endurance	IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours)
2002/95/EC (RoHS)	compliant

Weight

Weight	3.05 g/pc
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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