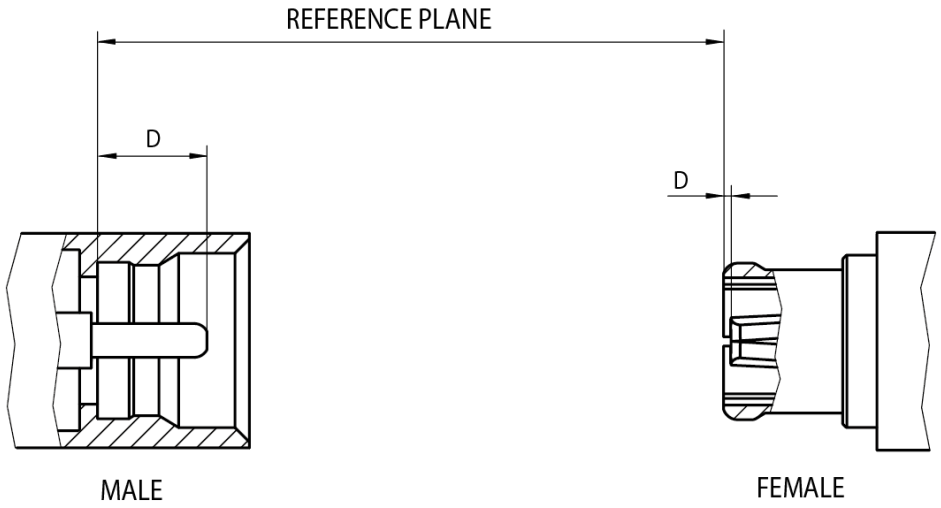
Technical Data		Rosenberger
119	P-SMP	**119-000-000_TD**



	Male				Female	
	Smooth bore		Limited detent			
	min.	max.	min.	max.	min.	max.
A	1.90	2.16	1.90	2.16	0.00	0.20

Dimensions in mm

Interface

According to Rosenberger P-SMP

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019

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Technical Data		Rosenberger
119	P-SMP	**119-000-000_TD**

Electrical data

Impedance	50 Ω
Frequency range	DC to 10 GHz
Return loss (cable connector straight)	≥ 32 dB @ DC to 3 GHz ≥ 26 dB @ 3 GHz to 6 GHz
Insertion loss	≤ 0.03 x $\sqrt{f}$ [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	200 W @ 2.2 GHz
Contact current	≤ 15 A DC
RF-leakage - Interface	≥ 75 dB @ DC to 4 GHz
Intermodulation 3rd order	≤ -160 dBc (2 x 43 dBm)

Mechanical data

Mating cycles	Full detent: ≥ 100 Limited detent: ≥ 100 Smooth bore, Catchers mitt: ≥ 1000
Center contact captivation	axial: ≥ 7 N
Engagement force	Full detent: ≤ 68 N Limited detent: ≤ 45 N Smooth bore, Catchers mitt: ≤ 10 N
Disengagement force	Full detent: ≥ 25 N Limited detent: ≥ 15 N Smooth bore, Catchers mitt: ≥ 2.2 N
Axial misalignment	± 1 mm
Radial misalignment	4°
Board-to-board distance (min.)	12.6 mm (solder paste thickness not included)

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)
Climatic category	IEC 60169-1, Sub-clause 18 (+165 °C, 1000 hours)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

Materials

Connector parts	**Material**	**Plating**
Spring loaded contact parts	CuBe	Au / white bronze
Center contact	CuZn	Au
Outer contact	CuZn	Au / white bronze
Crimping ferrule	Cu	Au / white bronze
Dielectric	PTFE / PEEK / LCP	

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