

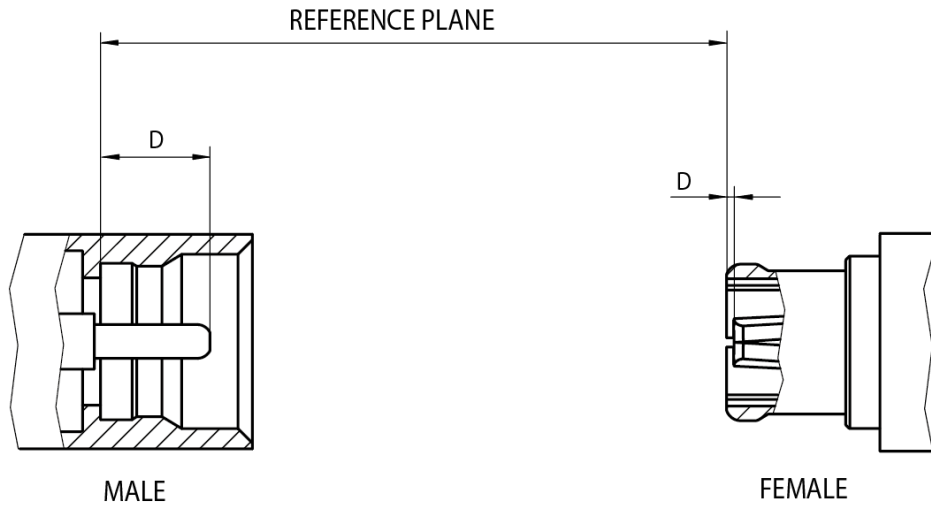
Technical Data

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RFB00035

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
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 1 / 2

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 √ 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

Spring loaded contact parts
Center contact
Outer contact
Crimping ferrule
Dielectric

Material

CuBe
CuZn
CuZn
Cu
PTFE / PEEK / LCP

Plating

Au / white bronze
Au
Au / white bronze
Au / white bronze

While the information (including technical data) has been carefully compiled to the best of our knowledge at the time of publication, the information is provided "AS IS" without warranties of any kind either express or implied. Apart from this, no statement herein shall be construed as recommendation to infringe existing patents. Individual values may deviate depending upon circumstances including but not limited to application, design, type of cable, assembly and workmanship. Furthermore, we reserve the right to change the design and technical specification of our products when deemed necessary.

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
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 2 / 2