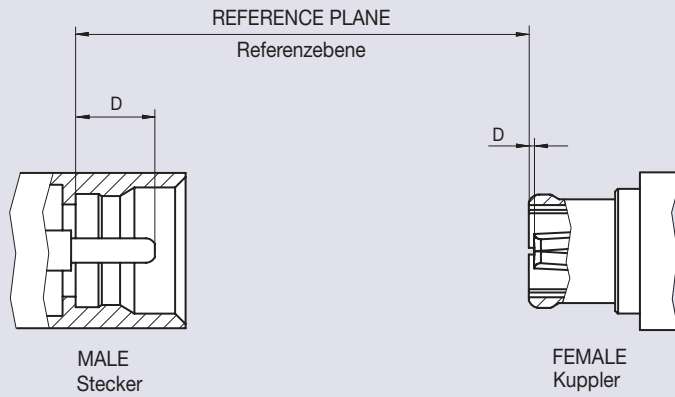


Interface Dimensions P-SMP

Code 119



D	Male Stecker				Female Kuppler	
	Smooth bore		Limited detent		min.	max.
	min.	max.	min.	max.		
	1.90	2.16	1.90	2.16	0.00	0.20

Dimensions in mm

Features

- ▶ Interface according to Rosenberger P-SMP series
- ▶ Frequency range DC to 10 GHz
- ▶ Return loss (cable connector straight) ≥ 32 dB (typ.)
- ▶ Power handling (continuous) 200 W @ 2.2. GHz
- ▶ Impedance 50 Ω
- ▶ Minimum board-to-board distance ≥ 12.6 mm
- ▶ Axial misalignment ± 1 mm
- ▶ Radial misalignment 4°
- ▶ Snap-on coupling

Product Range

- ▶ Cable connectors
- ▶ Panel connectors
- ▶ PCB connectors (SMD versions)
- ▶ Adaptors

Technical Data P-SMP

Code 119

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	Rosenberger P-SMP
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	50 Ω
Frequency range Frequenzbereich	DC to 10 GHz
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 32 dB @ DC to 3 GHz ≥ 26 dB @ 3 GHz to 6 GHz
Insertion loss Dämpfung	≤ 0.03 x √f (GHz) dB
Insulation resistance Isolationswiderstand	≥ 5 GΩ
Center contact resistance Übergangswiderstand Innenleiter	≤ 3 mΩ
Outer contact resistance Übergangswiderstand Außenleiter	≤ 2 mΩ
Test voltage Prüfspannung	1000 V rms
Working voltage Betriebsspannung	480 V rms
Power handling Leistungsbelastbarkeit	200 W @ 2.2 GHz
Contact current Kontaktstrombelastbarkeit	≤ 15 A DC
RF leakage - Interface Schirmdämpfung	≥ 75 dB @ DC to 4 GHz
Intermodulation 3rd order Intermodulation 3. Ordnung	≤ -160 dBc (2 x 43 dBm)
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	Full detent: ≥ 100 Limited detent: ≥ 100 Smooth bore, Catchers mitt: ≥ 1000
Center contact captivation Innenleiter Haltekraft	axial: ≥ 7 N
Engagement force Steckkraft	Full detent: ≤ 68 N Limited detent: ≤ 45 N Smooth bore, Catchers mitt: ≤ 10 N
Disengagement force Ziehkraft	Full detent: ≥ 25 N Limited detent: ≥ 15 N Smooth bore, Catchers mitt: ≥ 2.2 N
Axial misalignment Axialer Toleranzausgleich	± 1 mm
Radial misalignment Radialer Toleranzausgleich	4°
Board-to-board distance (min.) Board-to-board Abstand (min.)	12.6 mm (solder paste thickness not included)
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-65 °C to +165 °C
Thermal shock Temperaturzyklen	IEC 60169-1, Sub-clause 16.4 (-65 °C to +165 °C)
Climatic category Klimakategorie	IEC 60169-1, Sub-clause 18 (+165 °C, 1000 hours)
Vibration Vibration	IEC 60068-2-64 random
Shock Schock	IEC 60068-2-27 (50g, 11 ms, half-sine)
Max. soldering temperature (PCB connectors) Max. Löttemperatur (Leiterplattensteckverbinder)	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts Federnde Kontaktteile	CuBe, Au / white bronze plating
Center contact Innenleiter	CuZn, Au plating
Outer contact Außenleiter	CuZn, Au / white bronze plating
Crimping ferrule Crimphülse	Cu, Au / white bronze plating
Dielectric Dielektrikum	PTFE / PEEK / LCP

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.