

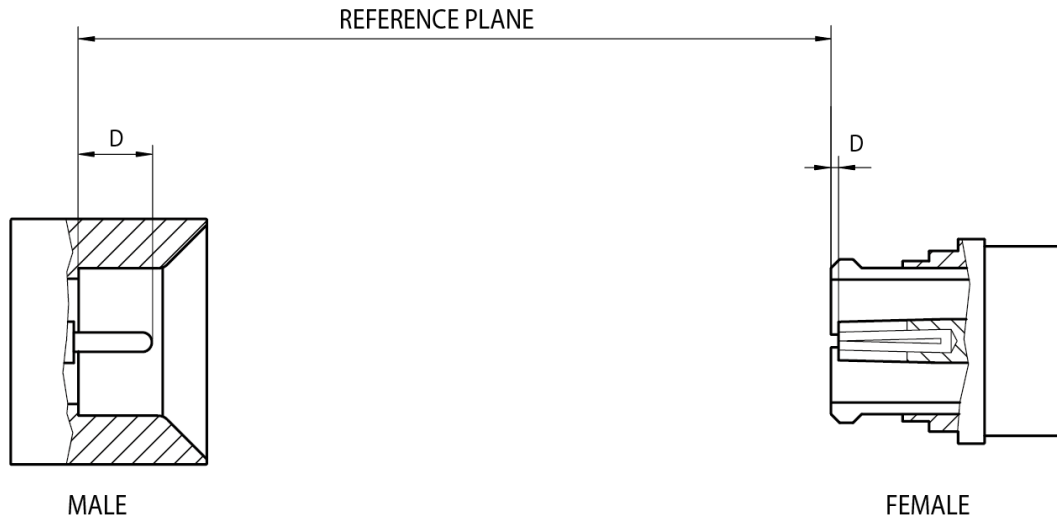
Technical Data

Rosenberger

17

Longwipe- SMP

17-000-000_TD



	Male		Female	
	min.	max.	min.	max.
D	2.10	2.30	0.00	0.20

Dimensions in mm

Interface

According to

Rosenberger Longwipe-SMP

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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
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Electrical data

Impedance	50 Ω
Frequency range	DC to 6 GHz
Return loss (cable connector straight)	≥ 23 dB (typ.)
Insertion loss	$\leq 0.05 \times \sqrt{f [\text{GHz}]}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 6 m Ω
Outer contact resistance	≤ 2 m Ω
Test voltage	500 V rms
Working voltage	335 V rms
Power handling	100 W @ 2.2 GHz
Contact Current	≤ 1.2 A DC
RF-leakage - Interface	≥ 85 dB @ DC to 4 GHz
Intermodulation 3rd order	≤ -150 dBc (2 x 43 dBm)

Mechanical data

Mating cycles	Full detent: ≥ 100 Limited detent: ≥ 500 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: ≤ 9 N
Disengagement force	Full detent: ≥ 22 N Limited detent: ≥ 9 N Smooth bore, Catchers mitt: ≥ 2.2 N
Axial misalignment	± 0.7 mm
Radial misalignment	4° (interface)
Board-to-board distance (min.)	9.25 mm (solder paste thickness not included)

Environmental data

Temperature range	-65 °C to +155 °C
Rapid change of temperature	IEC 60068-2-14 (-65 °C to +155 °C, 1h dwell, 50 cycles)
Damp heat	IEC 60068-2-78 (40 °C, 93% RH, 56d)
Climatic category	IEC 60169-1, Sub-clause 18 (+155 °C, 250 hours)
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

Materials

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

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