

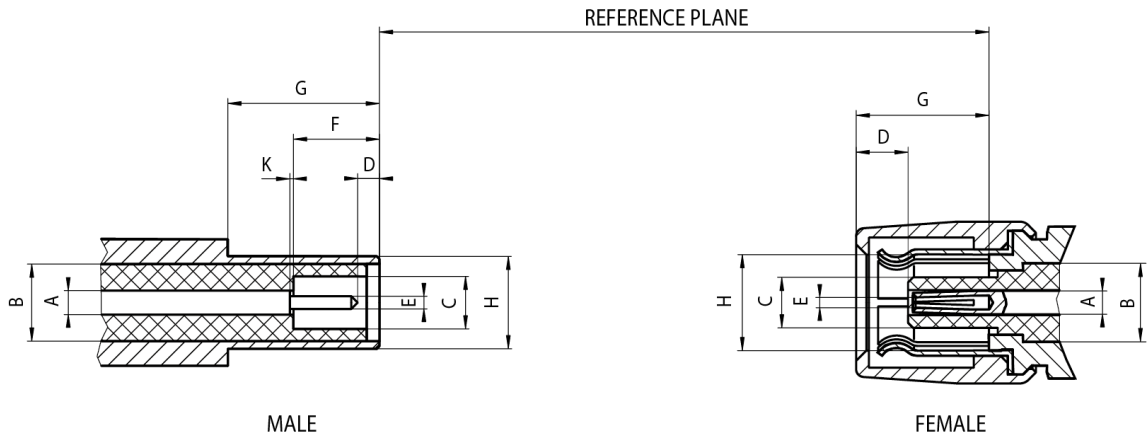
# Technical Data

# Rosenberger

49

SMG (50 Ω)

49-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	2) <sup>2)</sup>		2) <sup>2)</sup>	
B	Ø 3.05 nom.		Ø 3.05 nom.	
C	Ø 2.08	Ø 2.16	–	Ø 2.06
D	0.61	–	1.81	2.36
E	Ø 0.48	Ø 0.53	1) <sup>1)</sup>	
F	3.40	–	–	–
G	6.00	–	–	6.10
H	Ø 3.66	Ø 3.71	1) <sup>1)</sup>	
K	0.00	0.18	–	–

Dimensions in mm

<sup>1)</sup> Resilient, dimension to meet electrical and mechanical requirements

<sup>2)</sup> Contact diameter refers to 50 Ω

## Interface

Intermateable with

SMB connectors

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	05.02.2019	Chr. Janßen	05.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
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### Electrical data

Impedance	50 Ω
Frequency range	DC to 4 GHz
Return loss (cable connector straight)	≥ 17 dB (typ.)
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 1 GΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
Contact current	≤ 1.5 A DC
RF leakage - Interface	≥ 55 dB @ DC to 1 GHz

### Mechanical data

Mating cycles	≥ 500
Center contact captivation	axial: ≥ 10 N
Engagement force	≤ 8 N
Disengagement force	≥ 3 N

### Environmental data

Temperature range	-55 °C to +155 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Moisture resistance	MIL-STD-202, Method 106
Vibration	MIL-STD-202, Method 204, Condition C
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	
Gasket	Rubber	

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