

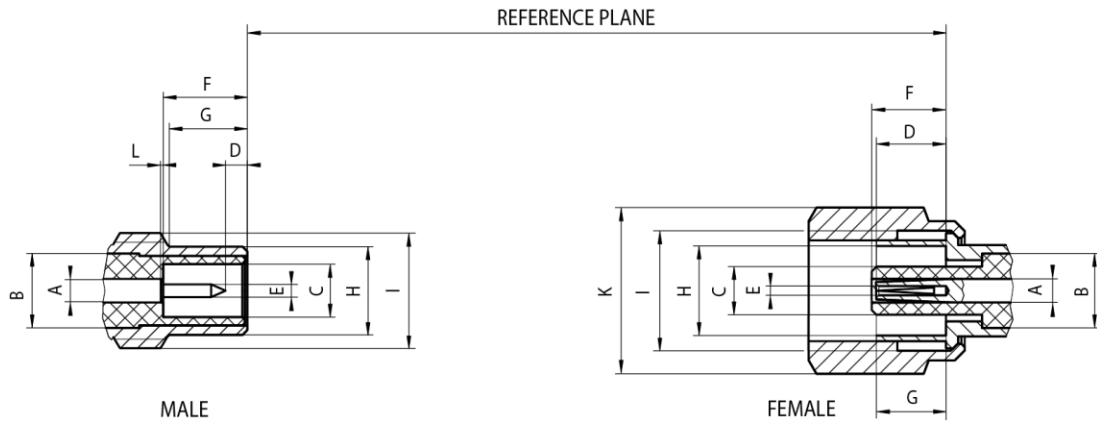
# Technical Data

# Rosenberger

39

SMC (50 Ω)

39-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	2)		2)	
B	–	Ø 3.07	–	Ø 3.07
C	Ø 2.08	–	–	Ø 2.06
D	0.61	–	2.85	3.40
E	Ø 0.48	Ø 0.53	1)	
F	3.40	–	–	3.40
G	3.12	3.38	–	3.10
H	–	Ø 3.71	Ø 3.73	–
I	10-32 UNF-2A		10-32 UNF-2B	
K	–	–	hex 6	
L	0.00	0.18	–	–

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

2) Contact diameter refers to 50 Ω

## Interface

According to

IEC 60169-9, CECC 22140, MIL-PRF-39012

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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 6 GHz
Return loss (cable connector straight)	≥ 30 dB @ DC to 1 GHz ≥ 20 dB @ 1 GHz to 3 GHz ≥ 18 dB @ 3 GHz to 6 GHz
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	≥ 90 dB @ DC to 1 GHz

### Mechanical data

Mating cycles	≥ 500
Center contact captivation	axial: ≥ 10 N
Coupling test torque	≤ 0.71 Nm
Coupling torque recommended	0.25 Nm to 0.35 Nm

### 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 D
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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