

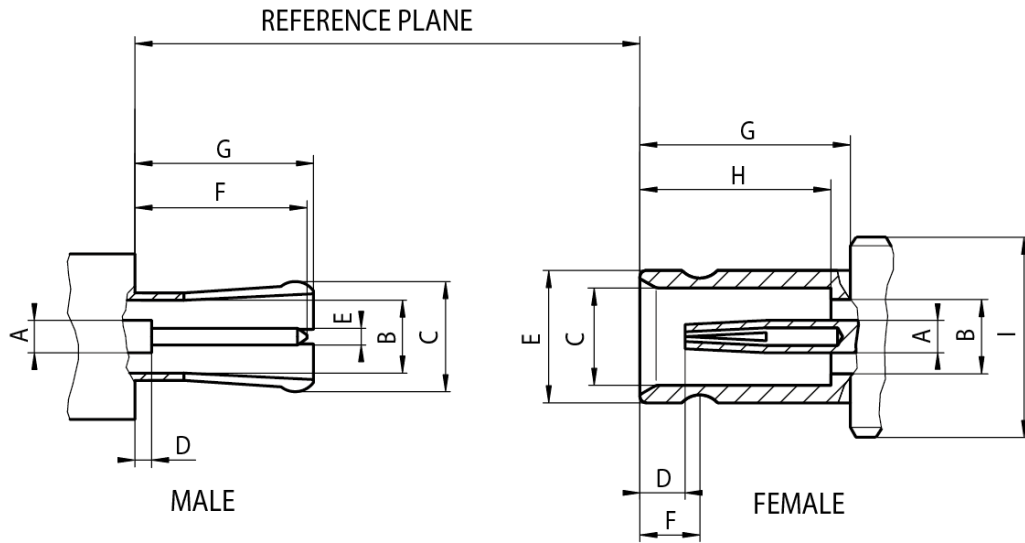
# Technical Data

# Rosenberger

34

1.0-2.3 DIN 47297 (50 Ω)

34-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	Ø 1.00 nom.		Ø 1.00 nom. <sup>1) 2)</sup>	
B	–	Ø 2.30 nom. <sup>1)</sup>	–	Ø 2.30 nom.
C	<sup>2)</sup>		Ø 3.00	Ø 3.06
D	–	1.15	1.15	1.75
E	Ø 0.475	Ø 0.52	Ø 4.03	Ø 4.15
F	–	5.50	1.80	1.90
G	5.40	5.70	6.40	6.50
H	–	–	5.80	5.90
I	–	–	M 5.5 x 0.5	

Dimensions in mm

<sup>1)</sup> Contact diameter refers to 50 Ω

<sup>2)</sup> Resilient, dimension to meet electrical and mechanical requirements

## Interface

According to

CECC 22230, DIN 47297

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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 10 GHz (max.) DC to 2.5 GHz (opt.)
Return loss (cable connector straight)	≥ 32 dB @ DC to 1 GHz ≥ 23 dB @ 1 GHz to 4 GHz ≥ 16 dB @ 4 GHz to 10 GHz
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 1 GΩ
Center contact resistance	≤ 4 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage - Interface	≥ 90 dB @ DC to 1 GHz

### Mechanical data

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

### Environmental data

Temperature range	-40 °C to +85 °C
Dry heat	IEC 60068-2-2
Climatic category	IEC 60068-2-1 40/85/21
Vibration	IEC 60068-2-6 (10 Hz to 2000 Hz, 100 m/s <sup>2</sup> )
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
Body	CuZn	Ag / Ni
Crimping ferrule	Cu	white bronze
Dielectric	PTFE	

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