

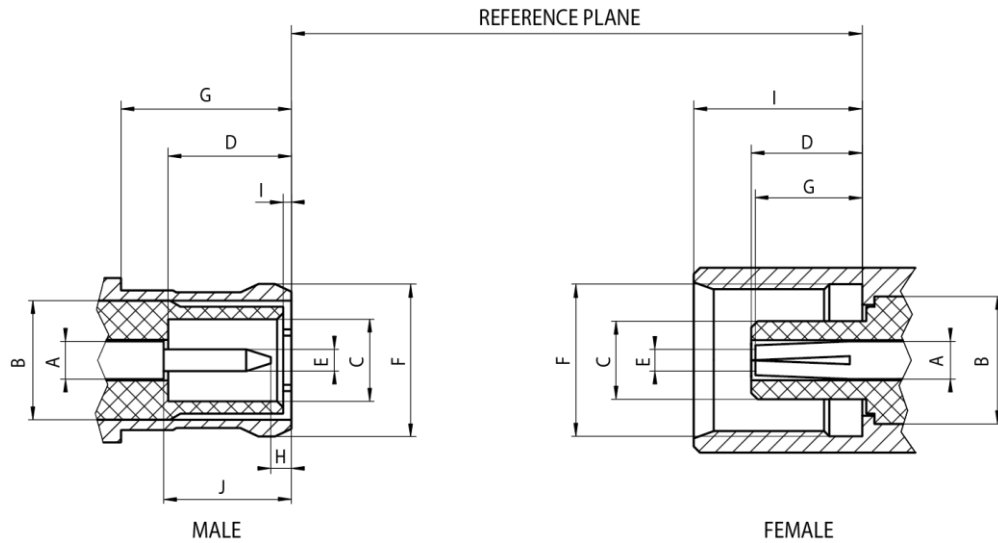
Technical Data

Rosenberger

29

MCX (50 Ω)

29-000-000_TD



	Male		Female	
	min.	max.	min.	max.
A	1)		1) 2)	
B	–	∅ 3.00 ²⁾	∅ 3.05 nom.	
C	∅ 2.00	–	–	∅ 1.98
D	2.80	–	2.60	2.80
E	∅ 0.48	∅ 0.53	2)	
F	–	∅ 3.80 ²⁾	∅ 3.60	∅ 3.75
G	4.15	–	2.30	2.80
H	0.15	–	–	–
I	0.00	0.30	4.00	4.12
J	2.80	3.20	–	–

Dimensions in mm

¹⁾ Contact diameter refers to 50 Ω

²⁾ Resilient, dimension to meet electrical and mechanical requirement

Interface

According to

IEC 61169-36, CECC 22220

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Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 1 / 2

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Electrical data

Impedance	50 Ω
Frequency range	DC to 6 GHz
Return loss (cable connector straight)	≥ 21 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	335 V rms
Contact current	≤ 1.5 A DC
RF-leakage - Interface	≥ 70 dB @ DC to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation	axial: ≥ 10 N
Engagement force	≤ 25 N
Disengagement force	8 N to 20 N

Environmental data

Temperature range	-55 °C to +155 °C
Thermal shock	CECC 22220, Chapter 4.6.7
Corrosion resistance	CECC 22220, Chapter 4.6.10
Damp heat	CECC 22220, Chapter 4.6.6
Vibration	CECC 22220, Chapter 4.6.3
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 / white bronze
Crimping ferrule	Cu	Au / white bronze
Dielectric	PTFE	
Gasket	Rubber	

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