

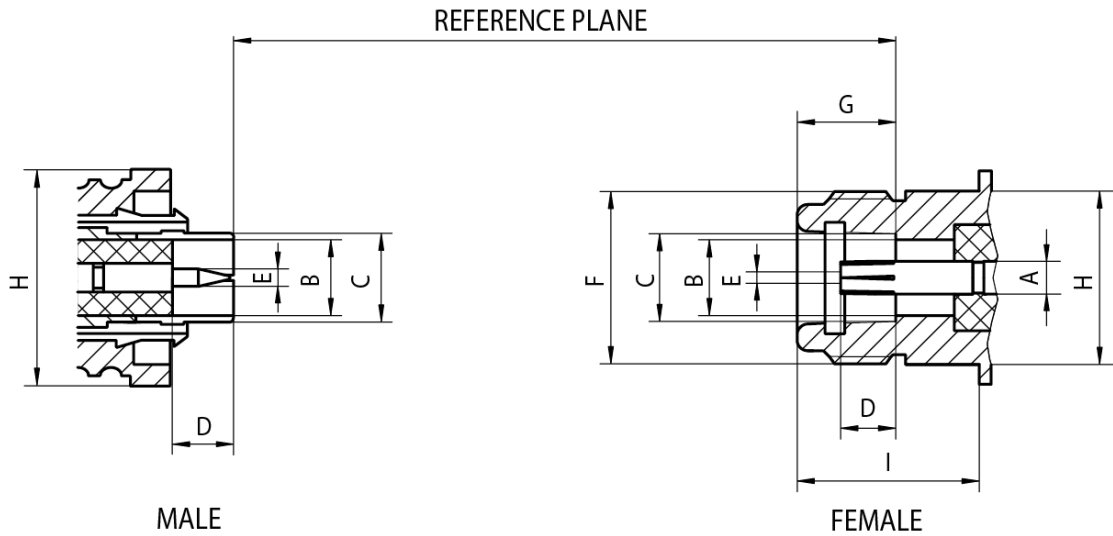
Technical Data

Rosenberger

53Q

SnapN (50 Ω)

53Q-000-000_TD



	Male		Female	
	min.	max.	min.	max.
A	–	–	Ø 3.04 nom.	
B	Ø 7.00 nom.		Ø 7.00 nom.	
C	Ø 8.20	Ø 8.38	Ø 8.027	Ø 8.13
D	5.33	–	4.75	5.26
E	Ø 1.60	Ø 1.676	1)	
F	–	–	5/8-24 UNEF-2A	
G	–	–	9.05	9.19
H	Ø 16.00 nom.		–	Ø 15.93
I	–	–	–	10.72

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

Interface

According to
Female according to

Rosenberger SnapN
IEC 61169-16, CECC 22210, MIL-PRF-39012

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	11.03.2019	Chr. Janßen	11.03.2019	a00	19-s083	J_Krautenbac	12.03.2019
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Electrical data

Impedance	50 Ω
Frequency range	DC to 11 GHz
Return loss (cable connector straight)	≥ 32 dB @ DC to 3 GHz ≥ 25 dB @ 3 GHz to 6 GHz ≥ 20 dB @ 6 GHz to 11 GHz
Insertion loss	≤ 0.05 x √ f [GHz]dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 1 mΩ
Working voltage	500 V rms
Power handling	300 W @ 2.5 GHz
RF leakage – Interface	≥ 90 dB @ DC to 3 GHz ≥ 80 dB @ 3 GHz to 6 GHz
Intermodulation 3rd order	≤ -155 dBc (2 x 43 dBm)

Mechanical data

Mating cycles	≥ 200
Center contact captivation	axial: ≥ 28 N radial: ≥ 3 Ncm
Engagement force	30 N (typ.)
Disengagement force	30 N (typ.)
Pitch	≥ 16 mm

Environmental data

Temperature range	-40 °C to +125 °C
Thermal shock	IEC 60169-1, Sub-clause 16.4
Damp heat	IEC 60169-1, Sub-clause 16.3
Climatic sequence	IEC 60169-1, Sub-clause 16.2, 40/125/21
Moisture resistance	MIL-STD-202, Method 106
Vibration	MIL-STD-202, Method 204, Condition A
Shock	MIL-STD-202, Method 213, Condition I
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

Materials

Connector parts

	Material	Plating
Spring loaded contact parts	CuBe / CuSn	Au
Center contact	CuZn	Au
Outer contact	CuZn	white bronze
Body	CuZn	white bronze
Locking sleeve	CuZn	white bronze
Crimping ferrule	Cu	white bronze
Dielectric	PTFE	
Gasket	Silicone	

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