

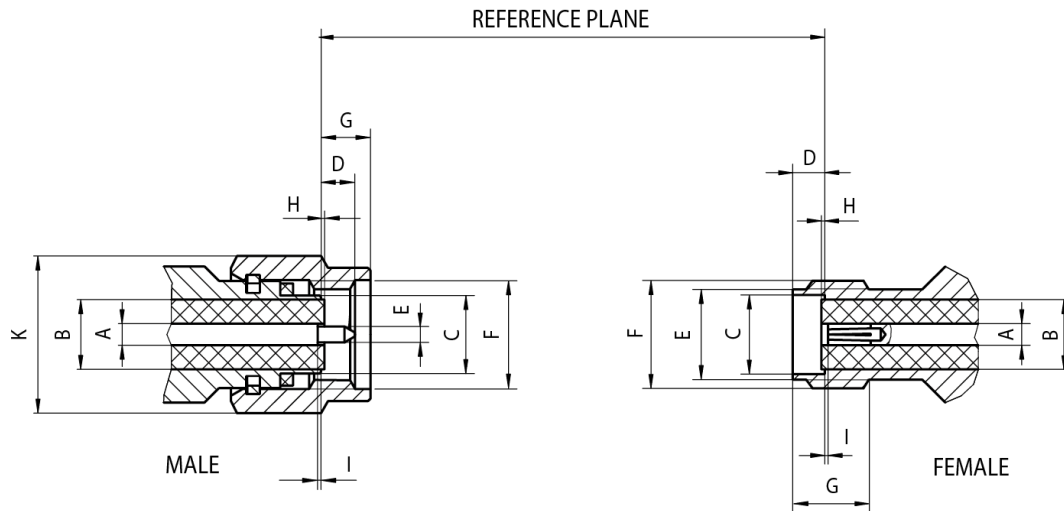
Technical Data

Rosenberger

32

SMA

32-000-000_TD



	Male		Female	
	min.	max.	min.	max.
A	Ø 1.245	Ø 1.295	Ø 1.245	Ø 1.295 ¹⁾
B	-	Ø 4.178	-	Ø 4.178
C	-	Ø 4.59	Ø 4.60	Ø 4.67
D	-	2.54	1.88	1.98
E	Ø 0.902	Ø 0.940	Ø 5.28	Ø 5.49
F	1/4-36 UNS-2B		1/4-36 UNS-2A	
G	-	3.43	4.32	-
H	-0.18	+0.05	-0.18	+0.05
I	0.00	-	0.00	0.41
K	hex 8		-	-

Dimensions in mm
¹⁾ Contact diameter refers to 50 Ω

Interface

According to

IEC 60169-15, EN 122110, MIL-STD-348

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
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Technical Data**Rosenberger**

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SMA

32-000-000_TD**Electrical data**

Impedance	50 Ω
Frequency range	DC to 18 GHz
Return loss (cable connector straight)	≥ 30 dB (typ.)
Insertion loss	≤ 0.04 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	200 W @ 2 GHz
RF-leakage - Interface	≥ 100 dB @ DC to 1 GHz

Mechanical data

Mating cycles	CuBe or equivalent / stainless steel: ≥ 500 CuZn: ≥ 100
Coupling nut retention	CuBe or equivalent / stainless steel: ≥ 270 N CuZn: ≥ 180 N
Center contact captivation	CuBe or equivalent / stainless steel: axial: ≥ 27 N, radial: ≥ 3 Ncm CuZn: axial: ≥ 20 N, radial: ≥ 1 Ncm
Coupling test torque	CuBe or equivalent / stainless steel: ≤ 1.7 Nm CuZn: ≤ 0.6 Nm
Coupling torque recommended	CuBe or equivalent / stainless steel: 0.8 Nm to 1.1 Nm CuZn: 0.5 Nm

Environmental data

Temperature range	-65 °C to +165 °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
Shock	MIL-STD-202, Method 213, Condition I
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

Materials**Connector parts**

Spring loaded contact parts
Center contact
Outer contact

Material

CuBe
CuZn
CuBe or equivalent
Stainless steel
CuZn

Plating

Au
Au
Au / white bronze
Passivated / Au
Au / white bronze
Au / white bronze
Passivated / Au
Au / white bronze
Au / white bronze
Passivated / Au
Au / white bronze
Au / white bronze

Body

CuBe or equivalent
Stainless steel
CuZn

Coupling nut

CuBe or equivalent
Stainless steel
CuZn

Crimping ferrule

Cu

Dielectric

PTFE

Gasket

Silicon / Rubber

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