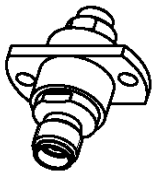
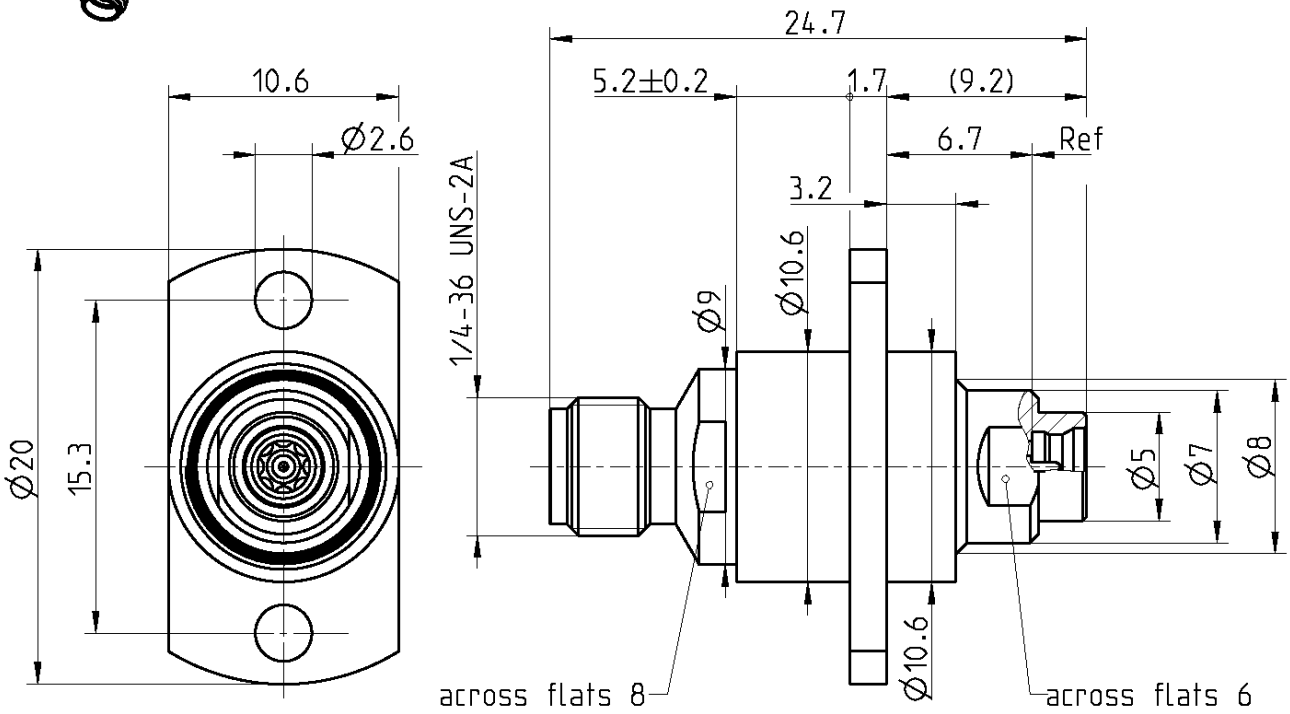
Technical Data Sheet

Rosenberger

Floating Adaptor
RPC-3.50 jack – SMP plug

03K719-S22S3





All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 according to	IEC 60169-23
RPC-3.50 mechanically compatible with	RPC-2.92 and SMA
SMP according to	MIL-STD-348

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Stainless steel	Passivated
Flange	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PS	

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Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 30 dB, DC to 12 GHz ≥ 20 dB, 12 GHz to 26.5 GHz
Insertion loss	≤ 0.04 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	335 V rms

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles SMP full detent	≥ 100
Center contact captivation	≥ 27 N
Coupling test torque RPC-3.50	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm
Engagement force SMP full detent	≤ 68 N
Disengagement force SMP full detent	≥ 22 N
Misalignment	radial 0.7 mm min
Spring force	min. 8 N at rest max. 15 N at max. spring travel
Spring travel	2.3 mm max.

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

8.8 g/pce

Draft	Date	Approved	Date
H. Babinger	13.05.04	F. Reiner	26.06.18

Rev.	Engineering change number	Name	Date
f01	18-1026	M. Ruf	25.06.18

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