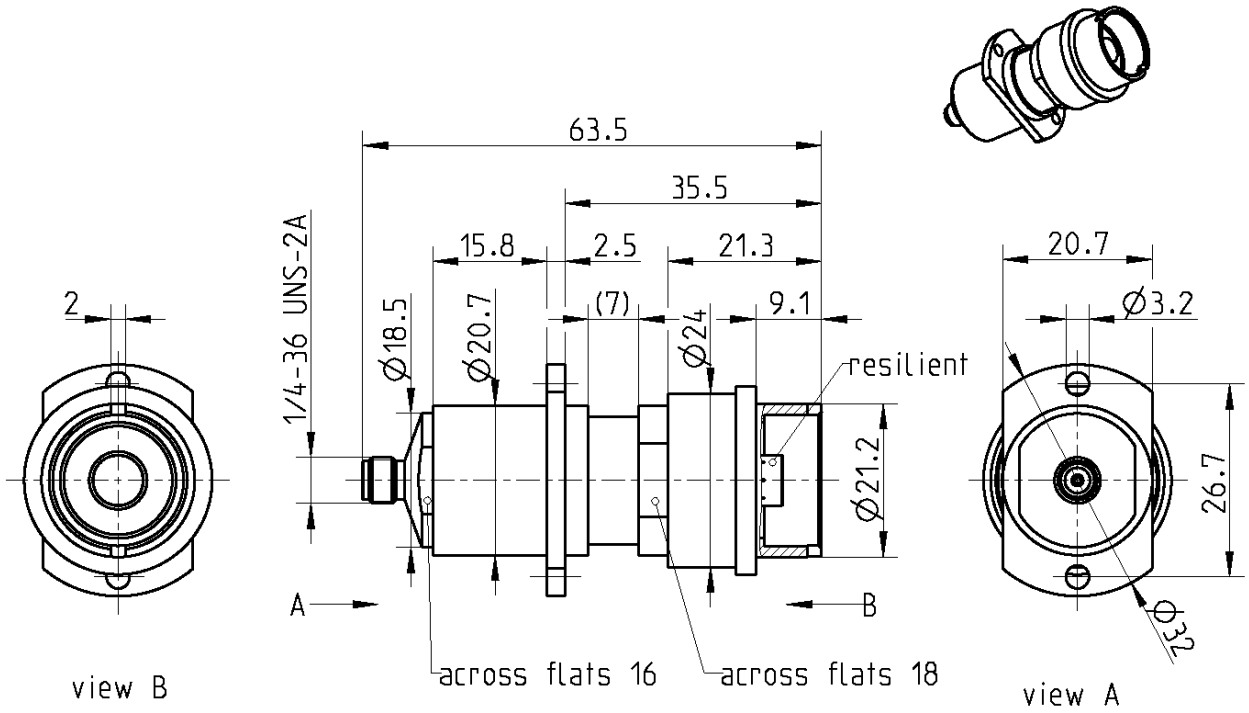
Technical Data Sheet

Rosenberger

Floating Adaptor
RPC-3.50 jack – 7/16 plug spring loaded center

03K760-S23N5



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
7/16 according to	IEC 61169-4, EN 122190, DN 47223

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	CuBe or equiv.	AuroDur®, gold plated
Outer contact RPC-3.50	Stainless steel	Passivated
Outer contact 7/16	Brass	Silver, 3-6 µm
Flange	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric 1	PP	
Dielectric 2	PTFE	

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Electrical data

Impedance	50 Ω
Frequency	DC to 3 GHz
Return loss	≥ 23 dB, DC to 3 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	335 V rms

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles 7/16	≥ 1000
Center contact captivation	≥ 27 N
Coupling test torque RPC-3.50	1.70 Nm
Recommended torque RPC-3.50	0.80 Nm to 1.10 Nm
Misalignment	radial 0.55 mm min.
Spring force	min. 33 N at rest max. 62 N at max. spring travel
Spring travel	7 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

105 g/pce

Draft	Date	Approved	Date
A. König	05.11.07	F. Reiner	26.06.18

Rev.	Engineering change number	Name	Date
b01	18-1026	M. Ruf	25.06.18

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