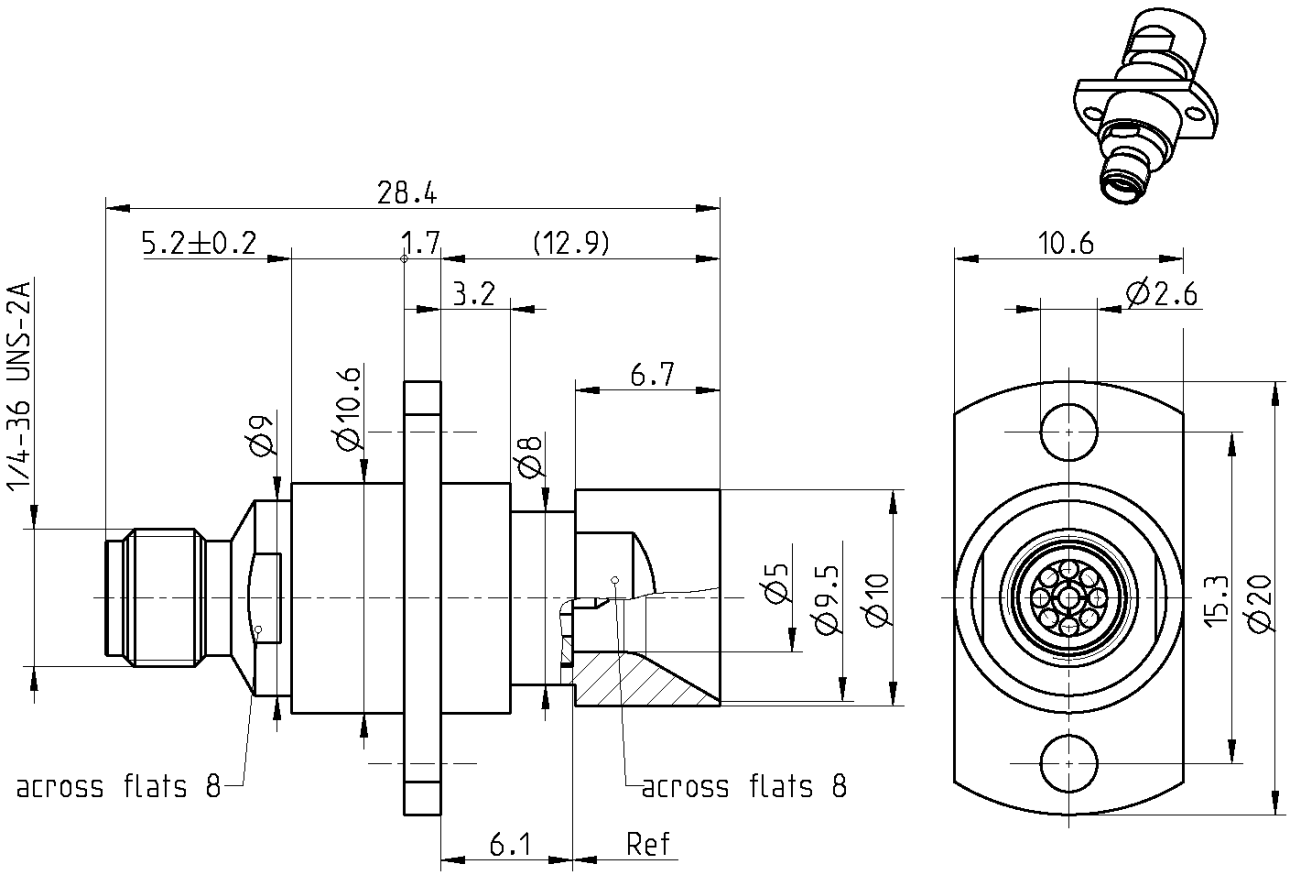
TECHNICAL DATA SHEET	Rosenberger®
FLOATING ADAPTOR RPC-3.50 JACK – QMA PLUG	**03K728-S22S3**



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
QMA similar to	Rosenberger 28S000-000, series QMA
	Rosenberger is an authorised QLF® manufacturer

Documents

N/A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	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	

RF_35/12.04/3.0

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 40 dB, DC to 2.5 GHz ≥ 28 dB, 2.5 GHz to 6 GHz ≥ 24 dB, 6 GHz to 18 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-3.50	≤ 3.0 mΩ
Outer contact resistance RPC-3.50	≤ 2.0 mΩ
Center contact resistance QMA	≤ 3.0 mΩ
Outer contact resistance QMA	≤ 2.5 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles QMA	≥ 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
Engagement force QMA	N/A
Disengagement force QMA	N/A
Retention force for QMA interface	N/A
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
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	10.8 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date
Herbert Babinger	28/09/04	Martin Moder	20/08/12

Rev.	Engineering change number	Name	Date
e00	12-0192	Georg Schiele	20/08/12

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