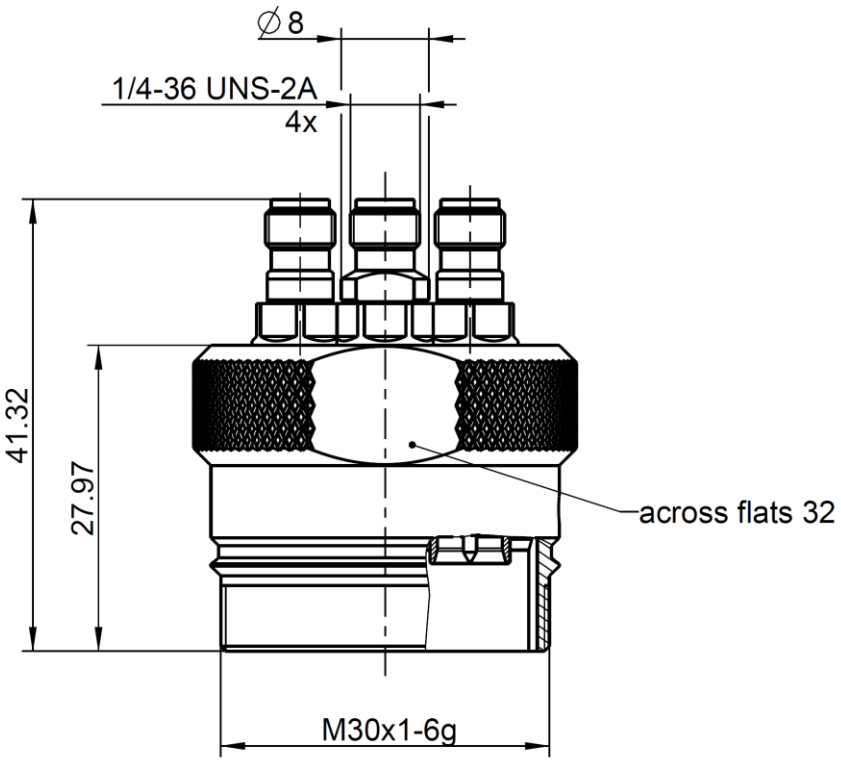
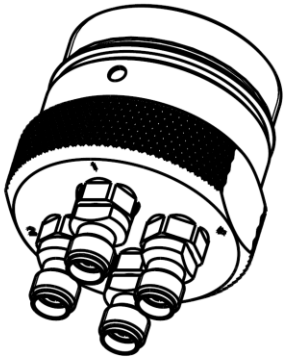
Technical Data Sheet	Rosenberger
ADAPTOR RPC-3.50 female – MQ4 female	**03K1MQ4-K01S3**





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
MQ4 according to	IEC 63138

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
Body	Brass	White bronze(e.g. Optalloy®)
Dielectric 1 (RPC-3.50 side)	COP	
Dielectric 2 (MQ4 side)	PTFE	

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ADAPTOR
RPC-3.50 female – MQ4 female

03K1MQ4-K01S3

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 36 dB, DC to 2 GHz ≥ 34 dB, 2 GHz to 4 GHz ≥ 28 dB, 4 GHz to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Proof voltage (at sea level)	1000 V rms
Working voltage (at sea level)	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles MQ4	≥ 1000
Center contact captivation: axial	≥ 27 N
Coupling test torque RPC-3.50	1.70 Nm
Coupling torque recommended RPC-3.50	0.80 Nm to 1.10 Nm
Coupling torque recommended MQ4	25 Nm to 30 Nm

Environmental data

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

Notes

Single adaptor as replacement part	03K1MQ4-K00S3

Weight

145 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date
F. Reiner	01.09.20	H. Babinger	01.12.21

Rev.	Engineering change number	Name	Date
b00	21-2187	J. Rohloff	01.12.21

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