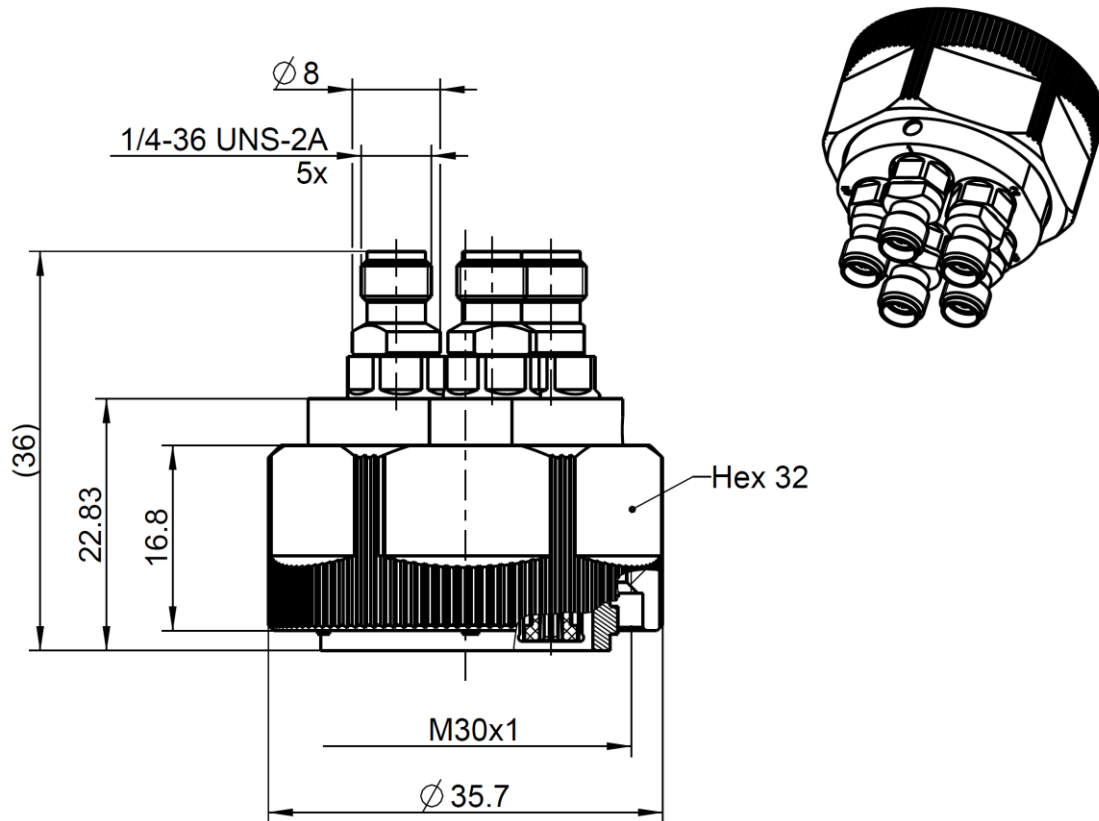


ADAPTOR
RPC-3.50 female – MQ5 male

03K1MQ5-S01D3



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

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
MQ5 according to

IEC 60169-23
RPC-2.92 and SMA
IEC 63138

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact (RPC-3.50 side)
Outer contact (MQ5 side)
Body
Coupling Nut
Dielectric 1 (RPC-3.50 side)
Dielectric 2 (MQ5 side)

Material

CuBe
Stainless steel
CuBe
Brass
Brass
COP
PTFE

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Gold, min. 1.27 µm, over chemical nickel
White bronze(e.g. Optalloy®)
NiSn plating or equivalent

Technical Data Sheet

Rosenberger

ADAPTOR
RPC-3.50 female – MQ5 male

03K1MQ5-S01D3

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	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
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 MQ5	≥ 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 MQ5	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-S00D3
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Weight

138 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	Rev.	Engineering change number	Name	Date
F. Reiner	01.09.20	H. Babinger	02.12.21	a00	21-s253	J. Rohloff	02.12.21
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