

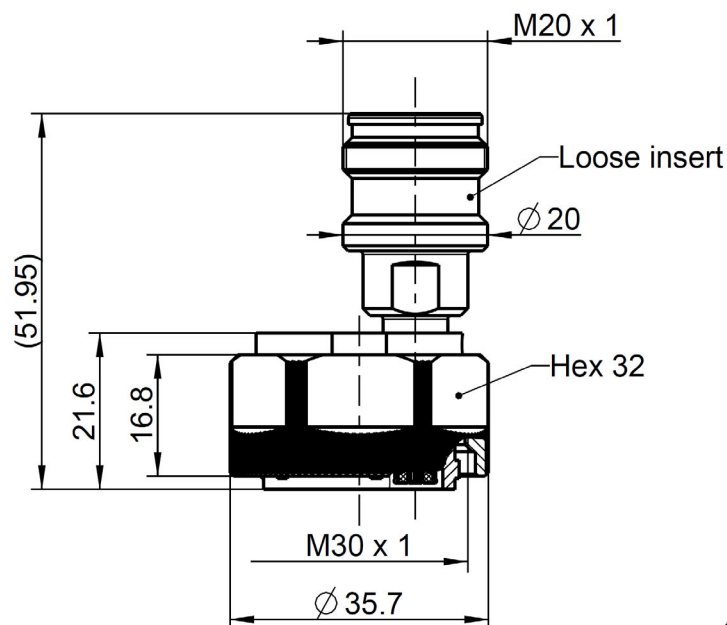
Technical Data Sheet

Rosenberger

MQ4

Adapter
MQ4 Plug – 4.3-10 Jack

MQ4S164-K01N1



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

Interface

According to	MQ4 side:	IEC 63138
	4.3-10 side:	IEC 61169-54

Documents

N/A

Material and Plating

Connector parts

Center contact		CuBe	Silver, 3-6 µm
Outer contact	MQ side	CuBe	White bronze(e.g. Optalloy®)
Body	MQ side	Brass	White bronze(e.g. Optalloy®)
Outer contact	4.3-10 side	CuBe	Silver, 3-6 µm
Body	4.3-10 side	Brass	White bronze(e.g. Optalloy®)
Dielectric		PTFE	
Coupling nut		Brass	NiSn plating or equivalent

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Electrical Data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 36 dB, DC to 2.7 GHz ≥ 34 dB, 2.7 to 4 GHz ≥ 26 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 x 10 ³ MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	150 W @ 2 GHz, cw
RF-leakage	≥ 90 dB up to 3 GHz ≥ 70 dB 3 to 6 GHz
Intermodulation (3 rd order)	≤ -123 dBm @ 2 x 20 W, DC to 2,7 GHz

Mechanical Data

	MQ	4.3-10
Mating cycles	≥ 1000	≥ 100
Center contact captivation: axial	≥ 25 N	≥ 30 N
radial	N/A	> 5 Ncm
Recommended torque	25 Nm to 30 Nm	5 Nm

Environmental Data

Temperature range	-45°C to +85°C
Thermal Shock	IEC 61169 9.4.2 and 9.4.4 (-40°C~85°C, 7x24h)
Corrosion resistance	IEC 60068-2-11, 720 h
Humidity temperature cycle	IEC 60068-2-30
Temperature life	EIA 364-17, 250H @ 125 °C
Vibration	IEC 61169-1 9.3.3
Shock	IEC 61169-1 9.3.14
RoHS	compliant

Suitable Cables

N/A

Weight

133 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
Rong Fang	17.10.2019	M. Wimmer	17.12.2021	a00	21-s046	Fl. Öllerer	17.12.2021
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