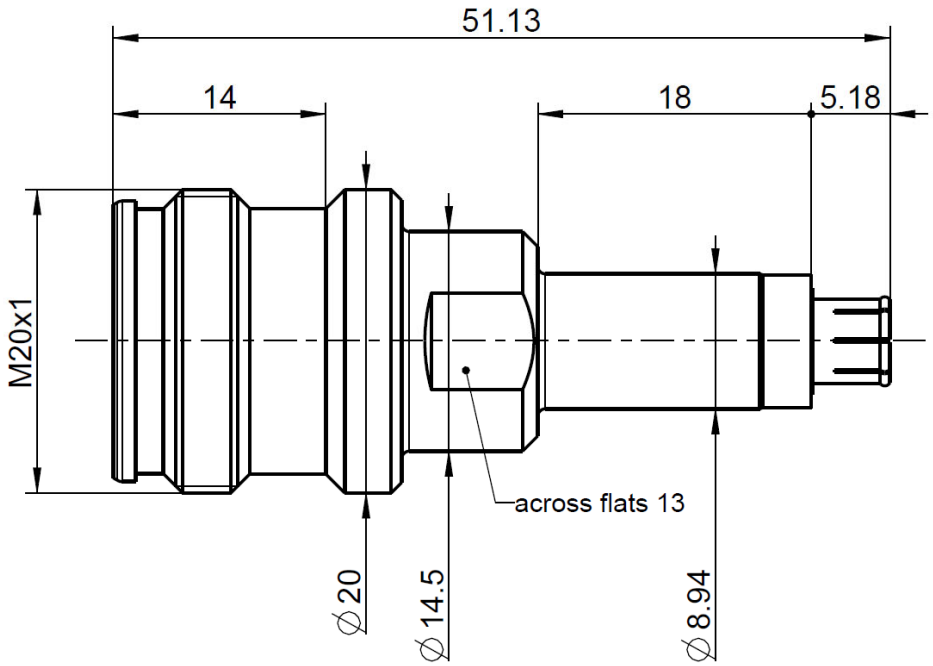
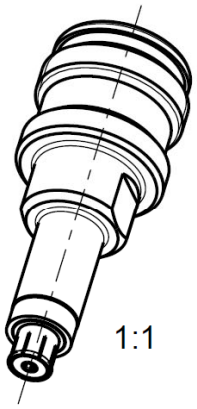
Technical Data Sheet		Rosenberger
MQ4	Adapter MQ4 Plug – 4.3-10 Jack	**MQ4S164-K00N1**





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		**Material**	**Plating**
Center contact		CuBe	Silver, 3-6 µm
Outer contact	MQ side	CuBe	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	

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Technical Data Sheet		Rosenberger
MQ4	Adapter MQ4 Plug – 4.3-10 Jack	**MQ4S164-K00N1**

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	$\leq 0.05 \times \sqrt{f(GHz)}$ dB
Insulation resistance	$\geq 5 \times 10^3$ 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 (3rd 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	N/A	5 Nm

Environmental Data

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

Suitable Cables

N/A

Weight

37 g/pce

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

Draft	Date	Approved	Date
Rong Fang	08.07.2019	R_Fang	22.11.2021

Rev.	Engineering change number	Name	Date
a00	21-s046	Fl. Öllerer	22.11.2021

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