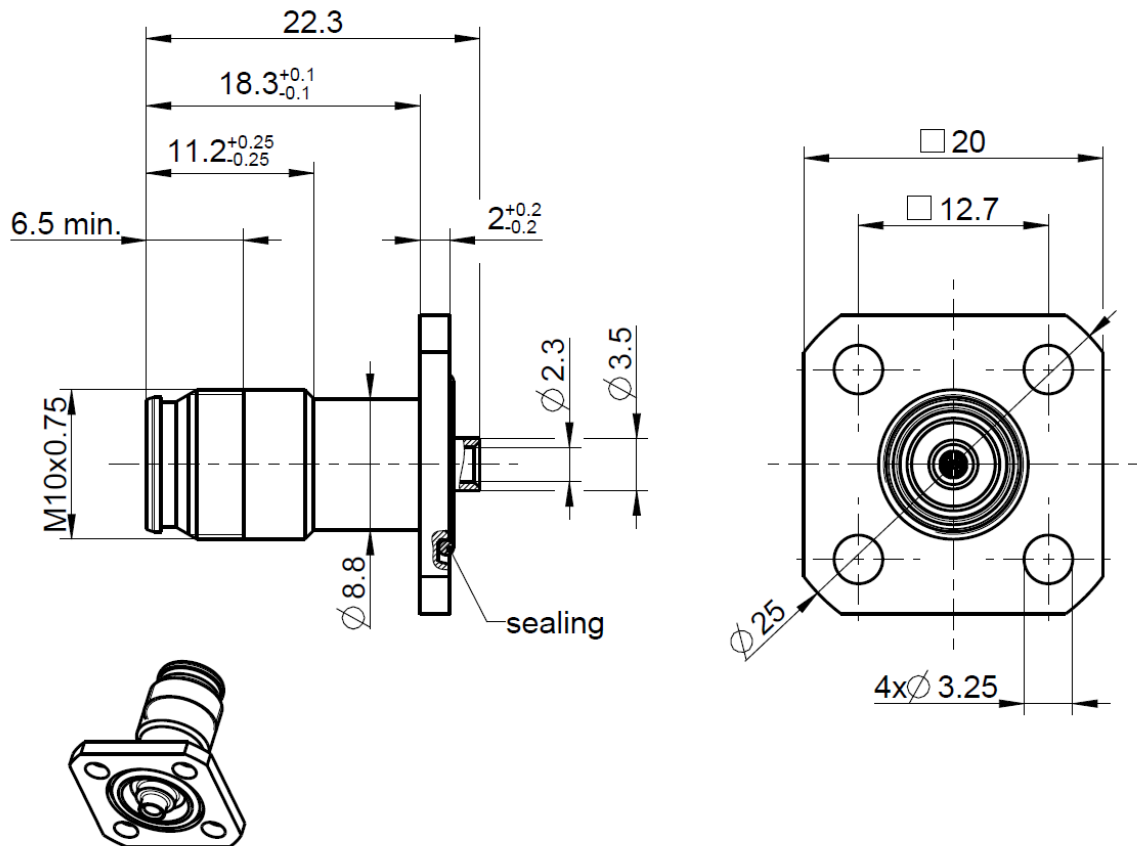




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

NEX10™

Documents

Assembly instruction
Panel piercing

89 B1
B 176d

Material and Plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

CuBe
Brass
Brass
PTFE
Silicone

Plating

Silver, 3-6 µm
White bronze(e.g. Optalloy®)
White bronze(e.g. Optalloy®)

Technical Data Sheet

Rosenberger

NEX10

Panel Jack

89K401-271N1

Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 36 dB @ DC to 2 GHz
	≥ 28 dB @ 2 GHz to 6 GHz
	≥ 24 dB @ 6 GHz to 10 GHz
Insertion loss	≤ 0.05 x $\sqrt{f \text{ [GHz]}}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1.5 mΩ
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature
	50 W @ 2.0 GHz and 105°C ambient temperature
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz

- Limitations are possible due to the used cable type -

Mechanical Data

Mating cycles	≥ 100
Recommended torque	1.5 Nm

Environmental Data

Temperature range	-55 °C to +125 °C operating temperature
Thermal shock	IEC 61169-1 9.4.4
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 24h / 1m
RoHS	compliant

Tooling

N/A

Suitable Cables

UT 085, RG 405 /U, RTK-FS 085

Weight

12.4 g/pc

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	Rev.	Engineering change number	Name	Date
F. Fraunhofer	16.08.2017	J. Krautenbacher	02.10.2018	b00	18-1829	B. Wollitzer	02.10.2018
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