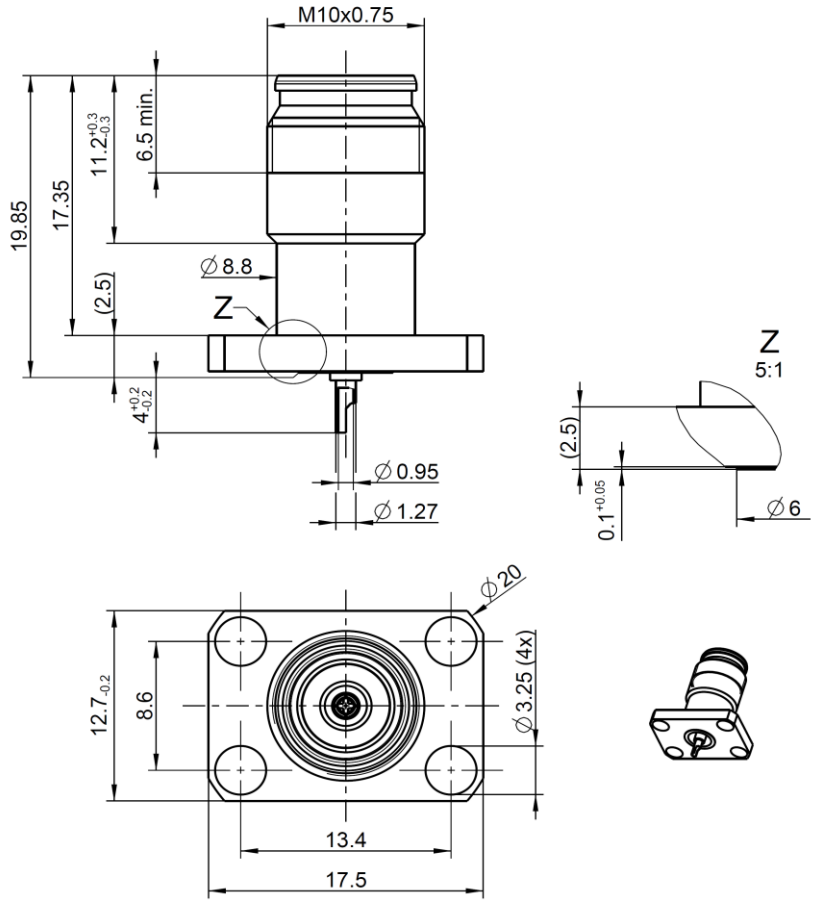
| Technical Data Sheet | | Rosenberger |
|---|---|---|
| NEX10 | Panel Jack | **89K401-200N1** |




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

## Interface

| | |
|---|---|
| According to | NEX10® |

## Documents

| | |
|---|---|
| Panel piercing | B 714a |

## Material and Plating

| **Connector parts** | **Material** | **Plating** |
|---|---|---|
| Center contact | CuBe | Silver, 3-6 µm |
| Outer contact | Brass | White bronze(e.g. Optalloy®) |
| Body | Brass | White bronze(e.g. Optalloy®) |
| Dielectric | PTFE | |





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## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 20 GHz |
| Return loss | ≥ 36 dB @ DC to 4 GHz<br>≥ 34 dB @ 4 GHz to 6 GHz<br>≥ 30 dB @ 6 GHz to 10 GHz<br>≥ 20 dB @ 10 GHz to 20 GHz |
| Insertion loss | $\leq 0.05 \times \sqrt{f\,[GHz]}$ dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 2.0 mΩ |
| Outer contact resistance | ≤ 1.0 mΩ |
| Working voltage | 500 V rms |
| RF-leakage | ≥ 110 dB @ DC to 6 GHz (tool tightened) |
| Power handling | 100 W @ 2.0 GHz and 85°C ambient temperature<br>50 W @ 2.0 GHz and 105°C ambient temperature |
| Intermodulation (3rd order) | ≥ 160 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz |

*RL values interface only*

## 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

N/A

## Weight

9.5 g/pc



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

| Draft | Date | Approved | Date |
|---|---|---|---|
| F. Fraunhofer | 16.11.2016 | Chr. Janßen | 09.02.2021 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| b00 | 20-1927 | B. Wollitzer | 09.02.2021 |


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