



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

Interface

According to NEX10™

Documents

Panel piercing tbd

Material and Plating

Connector parts

Center contact	CuBe
Outer contact	Brass
Body	Brass
Dielectric	PTFE

Plating

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

NEX10

Panel Jack

89K401-200N1

Electrical Data

Impedance 50 Ω
 Frequency DC to 20 GHz
 Return loss ≥ 36 dB @ DC to 4 GHz
 ≥ 34 dB @ 4 GHz to 6 GHz
 ≥ 30 dB @ 6 GHz to 10 GHz
 ≥ 20 dB @ 10 GHz to 20 GHz
 Insertion loss ≤ 0.05 x √ f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 2.0 mΩ
 Outer contact resistance ≤ 1.0 mΩ
 Test 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
 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

Weight 9.45g/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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Fraunhofer	16.11.16	F. Fraunhofer	09.01.2018	300	18-v026	Tobias Stadler	09.01.2018
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de						Tel. : +49 8684 18-0 Email : info@rosenberger.de	
							Page 2 / 2