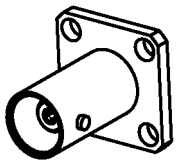
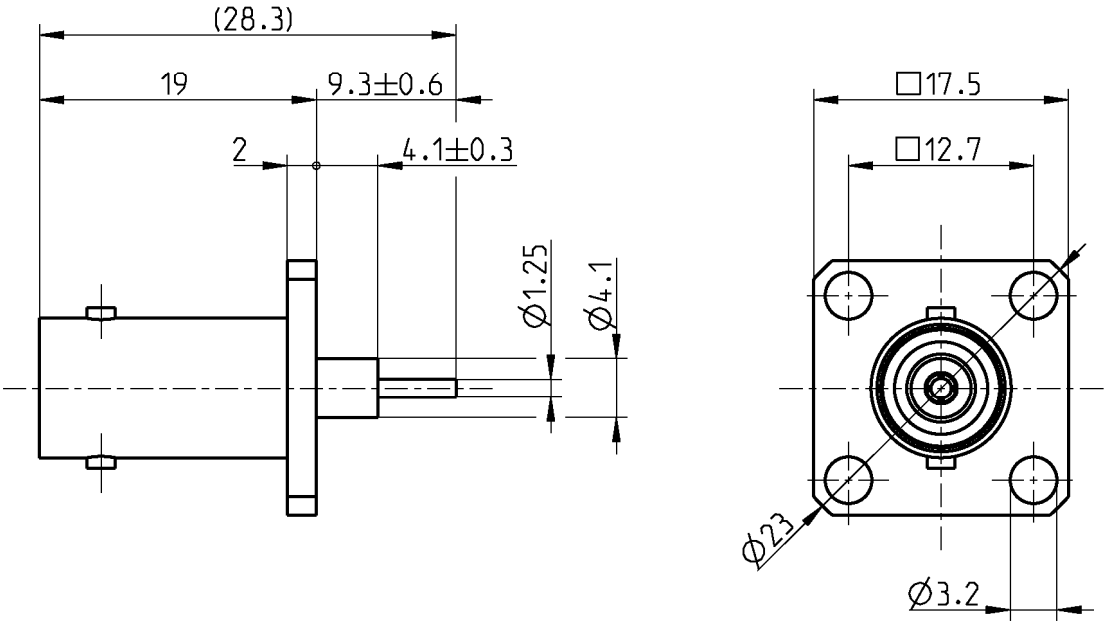
TECHNICAL DATA SHEET	Rosenberger
BNC 50 Ω PANEL JACK COAXIAL END	**51K405-500N5**





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

Interface

According to	IEC 60169-8, MIL-PRF-39012, CECC 22120

Documents

Panel piercing	B 6

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	

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BNC 50 Ω PANEL JACK COAXIAL END	**51K405-500N5**

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 30 dB, DC to 1 GHz ≥ 25 dB, 1 to 2.5 GHz ≥ 20 dB, 2.5 to 4 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\ [GHz]}$ dB, DC to 4 GHz
Insulation resistance	$\geq 5 \times 10^3$ MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 27 N

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	9.6 g/pce

Draft	Date	Approved	Date
Chr. Entsfellner	10/07/08	Sa. Krautenbacher	17.03.14

Rev.	Engineering change number	Name	Date
e00	14-0352	T. Krojer	17.03.14

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