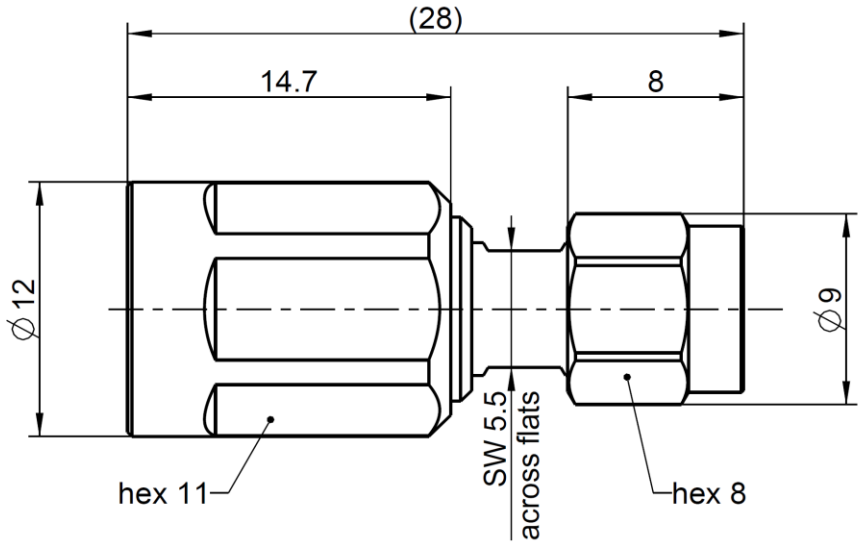
Technical Data Sheet		Rosenberger
SMA NEX10	Adaptor NEX10 Plug – SMA Plug	**32S189-S00N1**



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

Interface

According to	NEX10 side:	NEX10™
	SMA side:	IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310

Documents

N/A

Material and plating

Connector parts		**Material**	**Plating**
Center contact		Brass	Silver, 3-6 µm
Outer contact	NEX10 side:	Spring bronze	Silver, 3-6 µm
Outer contact	SMA side:	Brass	White bronze(e.g. Optalloy®)
Body		Brass	White bronze(e.g. Optalloy®)
Dielectric		PTFE	
Gasket		Silicone	

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Electrical data

Impedance	50 Ω
Frequency	DC to 12 GHz
Return loss	≥ 30 dB @ DC to 8 GHz
Insertion loss	≤ 0.05 x $\sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ, NEX10 side ≤ 3 mΩ, SMA side
Outer contact resistance	≤ 1.0 mΩ, NEX10 side ≤ 2 mΩ, SMA side
Working voltage	500 V rms
RF-leakage	≥ 100 dB @ DC to 1 GHz
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz

Mechanical data

	NEX10 side	SMA side
Mating cycles	≥ 100	≥ 100
Recommended torque	1.5 Nm	0.5 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 9.3 g/pce

Draft	Date	Approved	Date
F. Fraunhofer	12.01.17	Chr. Janßen	18.11.20

Rev.	Engineering change number	Name	Date
b00	20-1927	S. Huber-Siegl	18.11.20

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