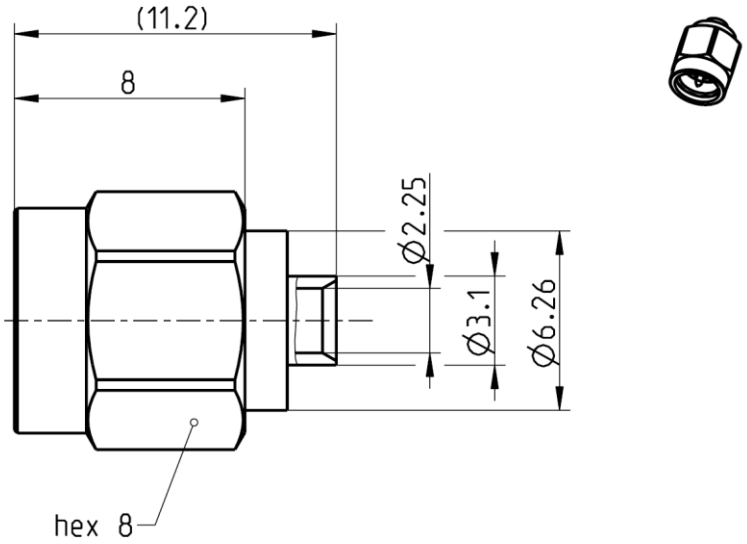
Technical Data Sheet		Rosenberger
SMA	Straight Plug	**32S102-271L5**



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

Interface

According to	IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310

Documents

Assembly instruction	32 A6 or 32 A20

Material and plating

Connector parts	Material	Plating
Center contact	Brass	AuroDur®, gold plated
Outer contact	CuBe or equivalent	AuroDur®, gold plated
Coupling nut	CuBe or equivalent	Gold, 0.1 µm
Dielectric	PTFE	
Gasket	Silicone	

Dieses Dokument ist urheberrechtlich geschützt ● This document is protected by copyright ● Rosenberger Hochfrequenztechnik GmbH & Co. KG

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

Technical Data Sheet		Rosenberger
SMA	Straight Plug	**32S102-271L5**

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR	≤ 1.05 + 0.01 x f [GHz]
Insertion loss	≤ 0.03 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 270 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

Environmental data

Temperature range	-65°C to +165°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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

UT 85, RG 405

Weight

Weight	2.5 g/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.

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



Draft	Date	Approved	Date
Wallner Markus	24.04.07	Chr. Janßen	16.11.20

Rev.	Engineering change number	Name	Date
e00	20-1927	S. Huber-Siegl	16.11.20

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

Dieses Dokument ist urheberrechtlich geschützt ● This document is protected by copyright ● Rosenberger Hochfrequenztechnik GmbH & Co. KG

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Rosenberger:

32K151-S00L5 32S207-303L5 51S101-S00N5 53K189-K00N1 56K501-K00N5 59K214-303L5
02K121-K00S3 153QK153-S00N5 18S203-40ML5 19S103-400L5 32S107-306L5 32S151-S00L5
02K621-K00S3 02S119-S00E3 51 K 507-802 N5 02K109-S00S3 119K101-272N5 19S202-40ML5
32K607-303L5 32RS132-K00L5 32Z111-000L5 19K119-K11L5 28K132-K00N5 32S102-271L5
53K160-KIMN1 71S102-109N5 119S104-40ML5 19S161-40ML5 28K201-400N5 53K503-K00N5