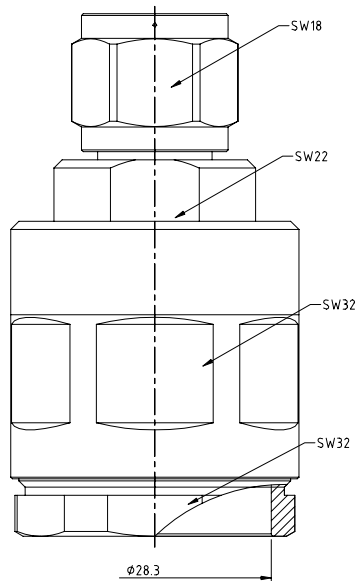


N 50Ω

STRAIGHT PLUG
(7/8"Normal & Low loss)

53S1C7-CX5N1



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

This product used for mobile network and telecommunication equipment

Interface

According to

IEC 60169-16, MIL-PRF-39012, CECC22210

Documents

Assembly instruction

In package

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Brass
Brass
Brass
TPX
Silicone

Plating

Silver, 3-6μm
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω
Frequency	Dc to 11 GHz
Return loss	≤ -37dB, DC to 1 GHz
	≤ -35dB, 1 to 2.7 GHz
Insertion loss	≤ 0.1 dB
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1mΩ
Outer contact resistance	≤ 0.25mΩ
Test voltage	2500 V rms
Working voltage	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz
	700 W @ 2 GHz

TECHNICAL DATA SHEET

Rosenberger®

N 50Ω
STRAIGHT PLUG
(7/8"Normal & Low loss)

53S1C7-CX5N1

Intermodulation (3rd order) ≤ -117dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling torque (recommended)	0.7 to 1.1 Nm
Proof torque	max. 1.7 Nm

Environmental data

Temperature range	-45°C to +85°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. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68

Tooling

60W007-CX5 (1C7)

Suitable cables

SL 7/8"R (Normal cable recommend)
SL 7/8"L (Low loss cable recommend)

Packing

Standard	1 Pcs in box
Weight	146 g/pcs

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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Roger			17.04.2007	a	-----	Roger	17.04.2007

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