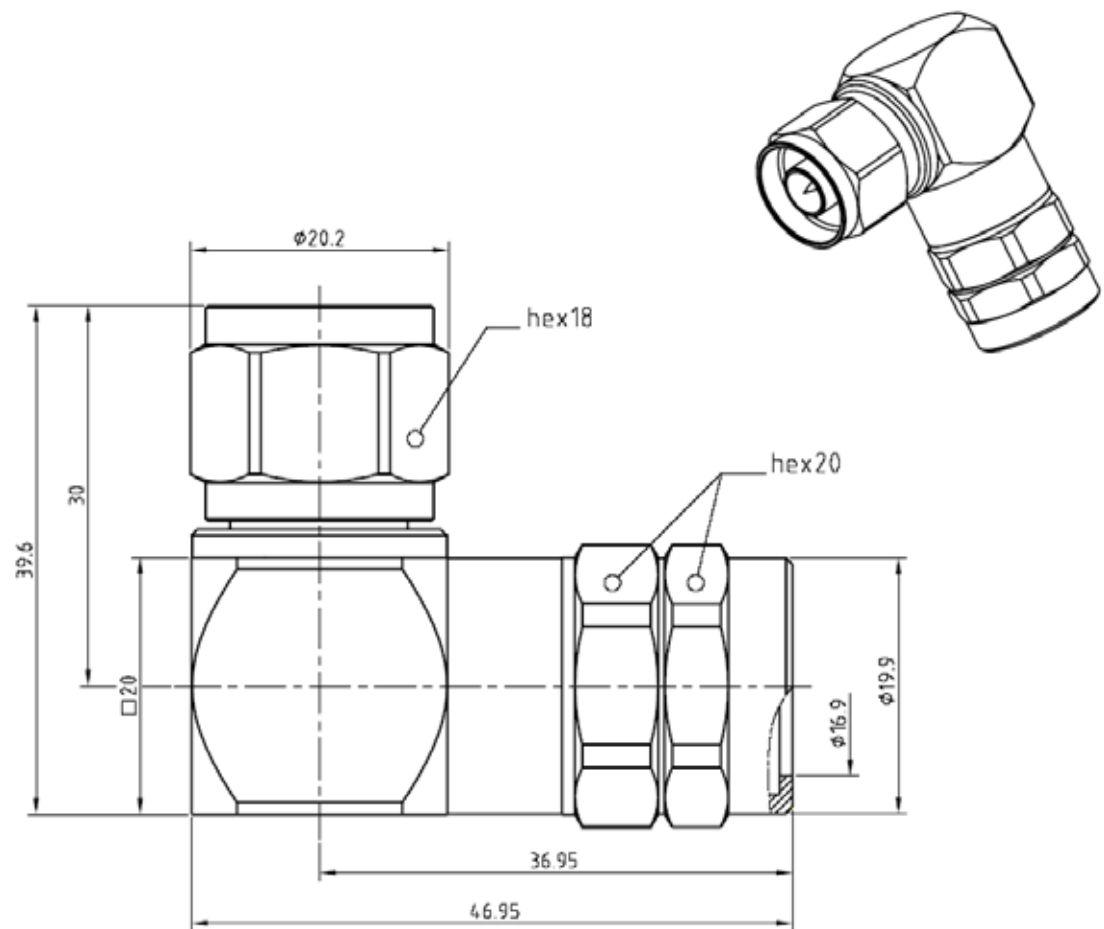


N Right Angle Plug (1/2" S)

53S2C7-C08N1



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

Interface

According to

IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

Assembly instruction

MA_1C7-C08(In Package)

Material and plating

Connector parts

Center contact
Outer contact
Back nut
Sealing nut
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
Brass
PTFE & POM
Silicone & EPDM

Plating

Silver, 3-6 μm
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)
Nickel, 2.5-5 μm

TECHNICAL DATA SHEET

Rosenberger
Rosenberger Site Solutions, LLC

N Right Angle Plug (1/2" S)

53S2C7-C08N1

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≤ -35dB, DC to 1 GHz ≤ -30dB, 1 to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 rd order)	≤ -107 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 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
2002/95/EC (RoHS)	compliant

Tooling

Crimping tool	60W110-C08
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Suitable cables

SL 012S Series (recommend)

Packing

Standard	1 pce in bag
Weight	103 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.

Draft	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
ZhaiQK	Roger	Kevin	23.07.2009	b	09-0497	ZhaiQK	22.07.2009
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