



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

Interface

According to IEC 61169-16

Documents

N/A

Material and plating

Connector parts

- Center contact
- Outer contact
- Coupling nut
- Dielectric
- Substrate

Material

- Brass
- Brass
- Brass
- PTFE
- Al₂O₃

Plating

- Gold, min. 1.27 μm, over nickel
- White bronze(e.g. Optalloy®)
- White bronze(e.g. Optalloy®)

Technical Data Sheet

Rosenberger

N 50 Ω

Termination
Plug 1 Watt

53S1RR-001N3

Electrical data

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 23.1 dB, DC to 4 GHz
Power handling (at 25 °C, sea level)	≤ 1 W, derated linearity by 0.01 W/K

Mechanical data

Mating cycles	≥ 500
Coupling nut retention	≥ 450 N
Center contact captivation	≥ 28 N
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-65 °C to +165 °C
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	60 pcs in blister
Weight	26 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	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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