



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
Flash white bronze over silver(e.g. Optargen®)
White bronze(e.g. Optalloy®)

Technical Data Sheet

Rosenberger

N 50 Ω

Termination
Plug 1 Watt

53S17R-001N3

Electrical data

Impedance	50 Ω
Frequency	DC to 12.4 GHz
Return loss	≥ 32.2 dB, DC to 1 GHz ≥ 26.4 dB, 1 GHz to 2 GHz ≥ 20.8 dB, 2 GHz to 12.4 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	-55 °C to +155 °C
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in bag
Weight	40 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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