



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  
Al<sub>2</sub>O<sub>3</sub>

**Plating**

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

# Technical Data Sheet

# Rosenberger

N 50  $\Omega$

Termination  
Plug 1 Watt

**53S1RR-001N3**

## Electrical data

Impedance	50 $\Omega$
Frequency	DC to 4 GHz
Return loss	$\geq 23.1$ dB, DC to 4 GHz
Power handling (at 25 °C, sea level)	$\leq 1$ W, derated linearity by 0.01 W/K

## Mechanical data

Mating cycles	$\geq 500$
Coupling nut retention	$\geq 450$ N
Center contact captivation	$\geq 28$ N
Coupling test torque	$\leq 1.7$ 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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