



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

**Interface**

According to IEC 61169-50

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact	Brass
Outer contact	Spring bronze
Body	Brass
Dielectric	PTFE
Unlocking sleeve	Brass
Substrate	AL <sub>2</sub> O <sub>3</sub>

**Plating**

AuroDur®, gold plated
White bronze(e.g. Optalloy®)
Flash white bronze over silver(e.g. Optargen®)
White bronze(e.g. Optalloy®)

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**Technical Data Sheet****Rosenberger**

QMA

Termination  
Plug 1 Watt**28S1ER-001N5****Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss	$\geq 29$ dB, DC to 1 GHz $\geq 21$ dB, 1 to 2.5 GHz $\geq 17$ dB, 2.5 to 12.4 GHz
Center contact resistance	$\leq 3$ m $\Omega$
Outer contact resistance	$\leq 2.5$ m $\Omega$
Impulse Power (1 $\mu$ s, 1%)	100 Watts at 25°C environment temperature
Power handling	1 W at 25°C Derated linearity by 0.01 W/K

**Mechanical data**

Mating cycles	min. 100
Engagement force	25 N
Disengagement force	20 N
Retention force for interface	60 N min.

**Environmental data**

Temperature range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 5.6 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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