



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

**Interface**

According to

Rosenberger 28S000-000, series QMA  
Rosenberger is an authorised QLF® manufacturer

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Body  
Dielectric  
Unlocking sleeve  
Substrate

**Material**

Brass  
Spring bronze  
Brass  
PTFE  
Brass  
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®)

QMA

Termination  
Plug 1 Watt

**28S1ER-001N5**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 18 GHz  
 Return loss ≥ 29 dB, DC to 1 GHz  
 ≥ 21 dB, 1 to 2.5 GHz  
 ≥ 17 dB, 2.5 to 12.4 GHz  
 Center contact resistance ≤ 3 mΩ  
 Outer contact resistance ≤ 2.5 mΩ  
 Impulse Power (1μs, 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Schmidhammer	15/10/07	F_Schmidhammer	10.08.16	g00	16-1350	C_Schmidinger	10.08.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>				Tel.: +49 8684 18-0 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>			Page 2 / 2