



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

Assembly instruction 28 C1

Material and plating

Connector parts

Center contact
 Outer contact
 Body
 Dielectric
 Unlocking sleeve

Material

Brass
 Spring bronze
 Brass
 PTFE
 POM

Plating

Gold, min. 1.27 µm, over chemical nickel
 White bronze(e.g. Optalloy®)
 Gold, min. 0.15 µm, over chemical nickel
 available in different colours *

* The colour is defined in the part number by the colour code YY: bl=blue, gn=green, ro=red, sw=black

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 32 dB, DC to 3 GHz ≥ 28 dB, 3 to 4 GHz ≥ 25 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB, DC to 6 GHz
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage, at sea level, 50Hz	1000 V rms
Working voltage, at sea level, 50Hz	335 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 70 dB up to 6 GHz
Intermodulation (3 rd order)	≤ -130 dBc @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 100
Center contact captivation: axial	≥ 20 N
Engagement force	typ. 25 N
Disengagement force	typ. 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)

Tooling

N/A

Suitable cables

UT 141, RG 402

Packing

Standard	100 pcs in bag
Weight	5.0 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
Fl. Öllerer	07.03.05	Rong Fang	27/10/05	d00	05-0567	Inge Mühlauer	27/10/05
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de		Page 2 / 2