



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

Interface

According to	QMA side:	Rosenberger 28S000-000, series QMA
	7/16 side:	Rosenberger is an authorised QLF® manufacturer IEC 60169-4, VG 95250, CECC 22190, DIN 47223

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact QMA
Outer contact 7/16
Dielectric
Gasket

Material

Brass
Brass
Brass
PTFE
Silicone

Plating

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

Electrical data

Impedance	50 Ω	
Frequency	DC to 8.3 GHz	
Return loss	≥ 34 dB, DC to 2.5 GHz ≥ 21 dB, 2.5 to 8.3 GHz	
Insertion loss	≤ 0.03 x √f(GHz) dB	
Insulation resistance	≥ 5 x10 ³ MΩ	
Center contact resistance	≤ 3 mΩ, QMA side	≤ 0.4 mΩ, 7/16 side
Outer contact resistance	≤ 2.5 mΩ, QMA side	≤ 1.5 mΩ, 7/16 side
Test voltage	1000 V rms	
Working voltage	480 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)	≤ -120 dBm @ 2 x 20 W, 1800 MHz	

Mechanical data

	QMA side	7/16 side
Mating cycles	min. 100	min. 500
Coupling nut retention	N/A	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
Coupling test torque		max. 35 Nm
Recommended torque		25 to 30 Nm
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)
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 98 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
M. Schmid	08/03/05	Sa. Krautenbacher	13.03.14	d00	14-0352	T. Krojer	13.03.14
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