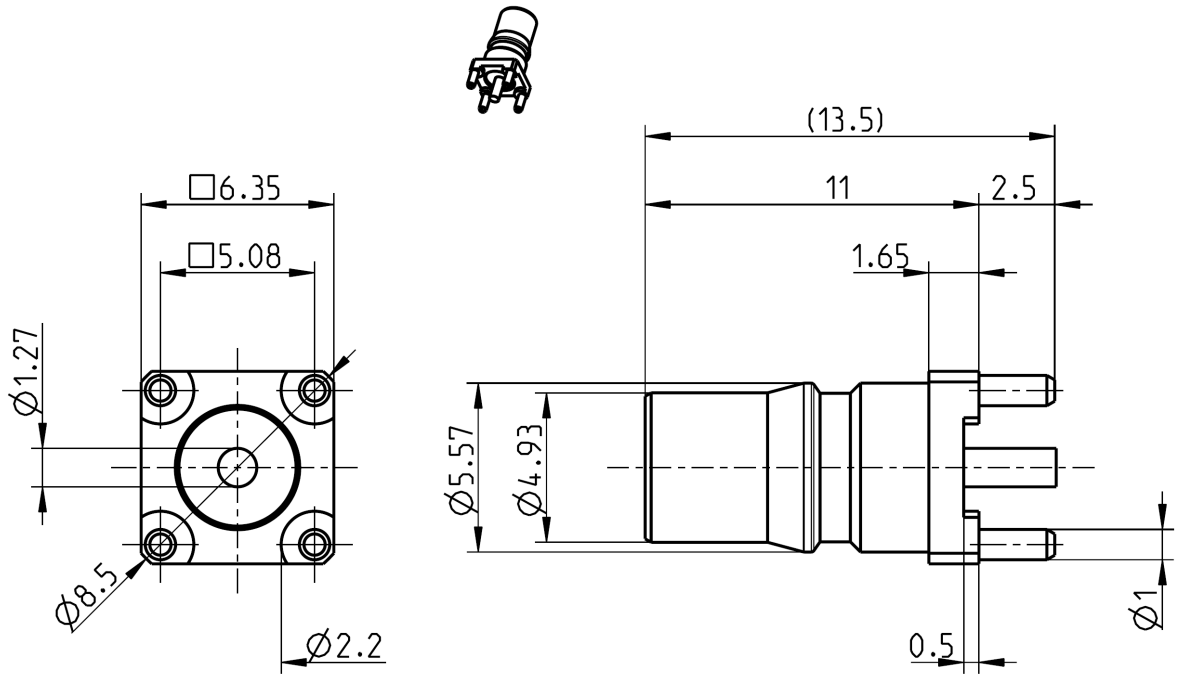
TECHNICAL DATA SHEET	Rosenberger
QMA STRAIGHT JACK PCB	**28K104-400L5**



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

Interface

According to	Rosenberger 28K000-000, series QMA Rosenberger is an authorised QLF® manufacturer

Documents

PCB layout	B 168
Tape & reel packaging	VG102.40000

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	AuroDur®, gold plated
Outer contact	Brass	AuroDur®, gold plated
Dielectric	PTFE	

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 32 dB, DC to 3 GHz
	≥ 29 dB, 3 to 4 GHz
	≥ 23 dB, 4 to 6 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(GHz)}$ dB, DC to 6 GHz
Insulation resistance	$\geq 5 \times 10^3$ 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	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 dBc @ 2 x 20 W
Power handling (VSWR=1.0; ambient temp. 25°C)	≤ 200 W @ 0.8 GHz
	≤ 150 W @ 1.9 GHz
	≤ 140 W @ 2.1 GHz

- VSWR in application depends decisive on PCB layout –
- Interface only-

Mechanical data

Mating cycles	min. 100
Center contact captivation: axial	≥ 20 N
radial	≥ 1 Ncm
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)
Max. solder temperature	+250°C (IEC 61760-1, 260°C for 10 sec.)
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	100 pcs. in blister
	400 pcs in tape&reel
Weight	1.4 g/pce

Draft	Date	Approved	Date
A. König	22/08/06	Schwangler	15.10.12

Rev.	Engineering change number	Name	Date
d00	12-0904	A_Wallner	15.10.12

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