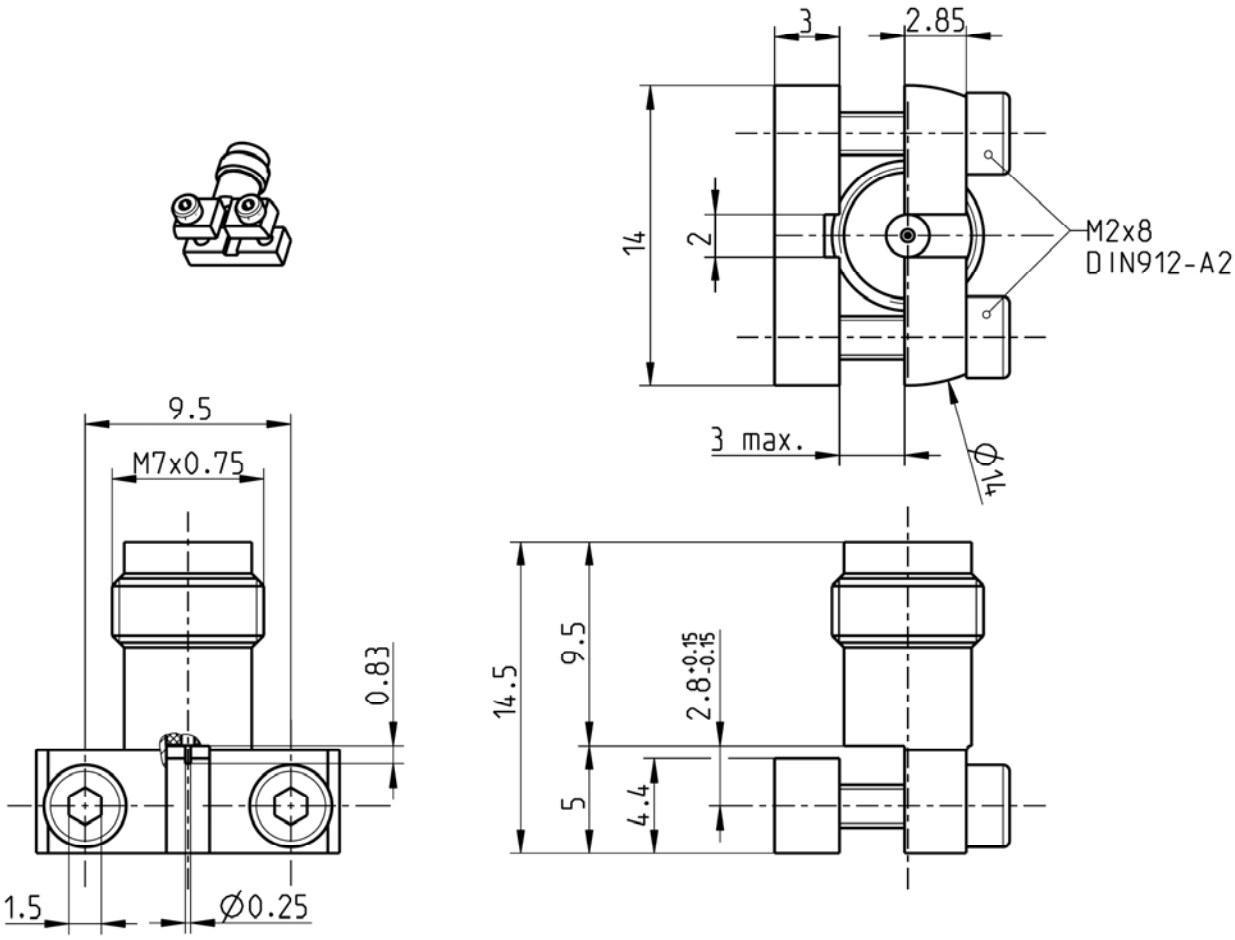
TECHNICAL DATA SHEET

Rosenberger®

RPC-2.40 RIGHT ANGLE JACK PCB

09K243-40ME3



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

Interface

Mechanically compatible with	RPC-1.85

Documents

PCB layout	B 208

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Brass	Gold, min. 0.8 µm, over chemical nickel
Dielectric 1	PEEK	
Dielectric 2	PTFE	
Screws	Stainless steel	

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Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss	≥ 12 dB, DC to 50 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 4.0 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Return loss in application depends decisive on PCB layout -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	50 pcs in blister
Weight	4.7 g/pce

Draft	Date	Approved	Date
Herbert Babinger	05/09/06	Armin Maiwälder	05/09/06

Rev.	Engineering change number	Name	Date
a00	04-0130	Herbert Babinger	05/09/06

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