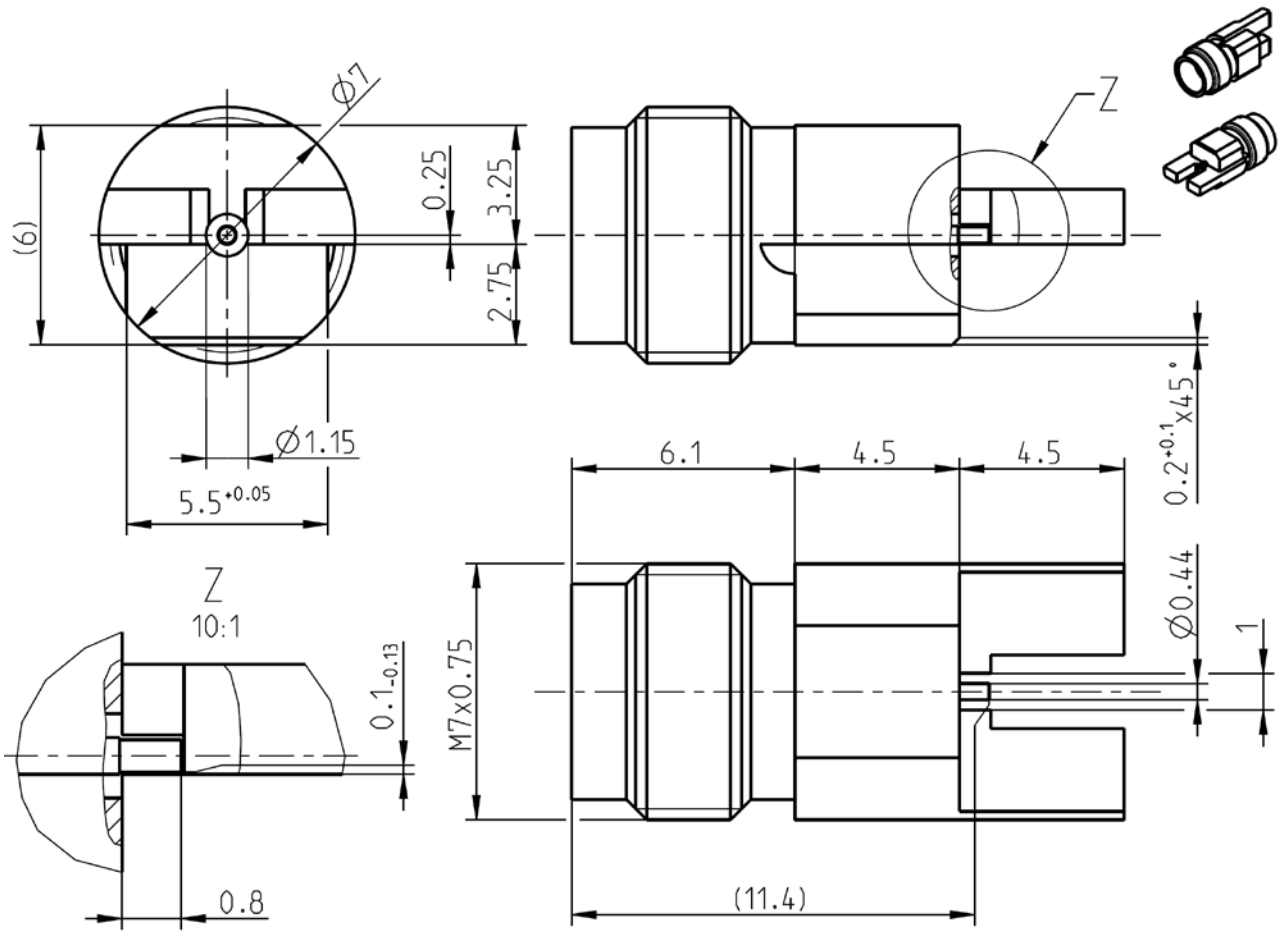
Technical Data Sheet		Rosenberger
RPC-1.85	Right Angle Jack PCB	**08K246-40ML3**



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

Interface

According to	IEC 61169-32
Mechanically compatible with	RPC-2.40

Documents

PCB layout	B 519

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact	CuBe or equiv.	AuroDur®, gold plated
Dielectric 1	PEEK	
Dielectric 2	PTFE	

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Technical Data Sheet		Rosenberger
RPC-1.85	Right Angle Jack PCB	**08K246-40ML3**

Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss	≥ 20 dB, DC to 40 GHz ≥ 14 dB, 40 GHz to 50 GHz ≥ 8 dB, 50 GHz to 70 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(GHz)}$ 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

- Connector only, VSWR in application depends decisive on PCB layout -

Mechanical data

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

Environmental data

Temperature range	-55°C to +125°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.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

2.7 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
Martin Moder	10.03.15	Florian Reiner	11.04.16

Rev.	Engineering change number	Name	Date
b00	16-0533	K. Mitterer	11.04.16

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