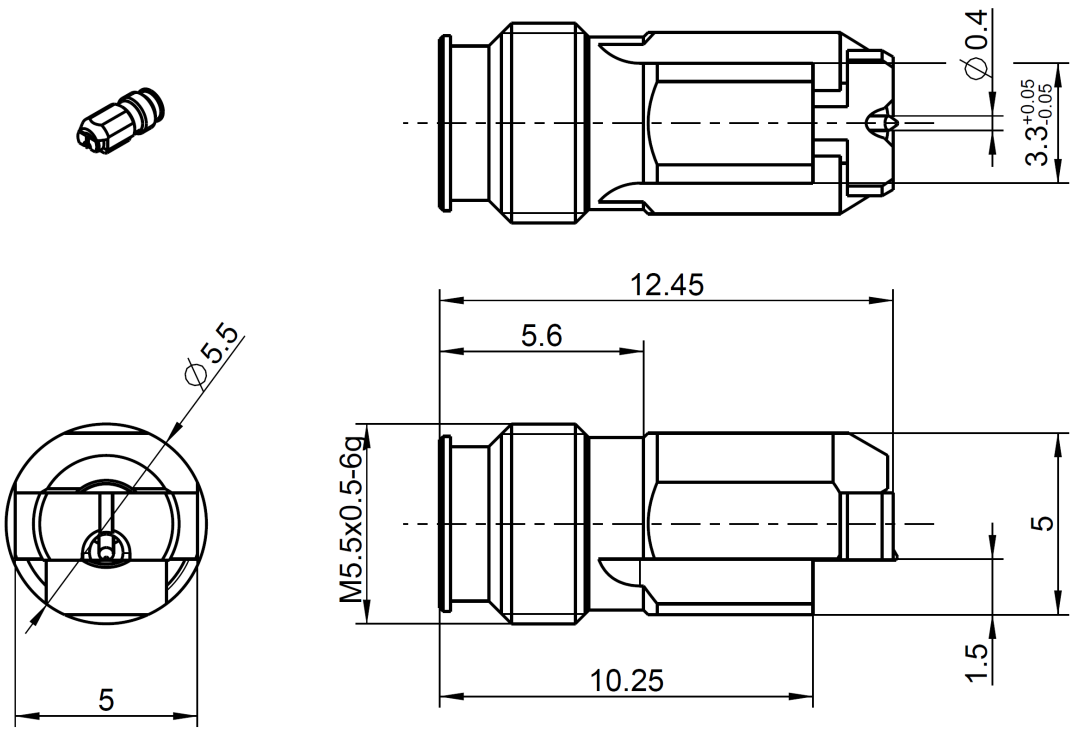
Technical Data Sheet		Rosenberger
RPC-1.35	Right Angle Jack PCB	**P9K241-40ML5**



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

Interface

According to	IEC 61169-65

Documents

PCB layout	B 781

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	AuroDur®, gold plated
Outer contact	CuBe or equiv.	AuroDur®, gold plated
Dielectric	PEEK	

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Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.com

Tel. : +49 8684 18-0
Email : info@rosenberger.com

Electrical data

Impedance	50 Ω
Frequency	DC to 90 GHz
Return loss	≥ 19 dB, DC to 26,5 GHz ≥ 17 dB, 26,5 to 40 GHz ≥ 14 dB, 40 to 70 GHz ≥ 12 dB, 70 to 90 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	150 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Return loss in application depends decisive on PCB layout

Mechanical data

Mating cycles	≥ 3000
Center contact captivation	≥ 10 N
Coupling test torque	1.65 Nm
Coupling torque recommended	0.80 Nm to 1.00 Nm

Environmental data

Temperature range	-55°C to +125°C
Corrosion	IEC 61169-1, Subclause 9.4.10
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

Weight

1.6 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date
Herbert Babinger	30.10.18	Martin Moder	29.06.21

Rev.	Engineering change number	Name	Date
a00	21-s127	M.Ruf	29.06.21

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