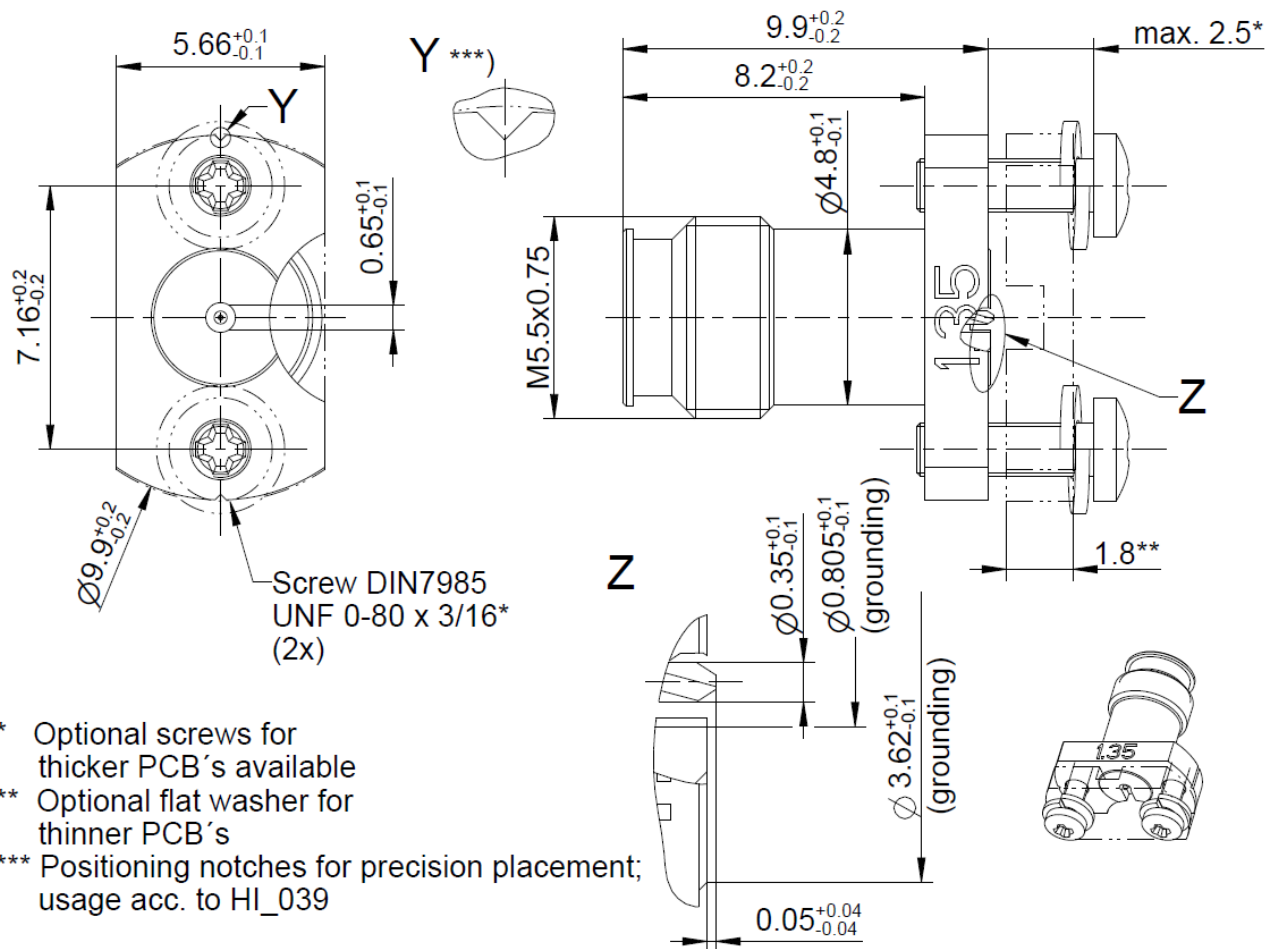


RPC-1.35

Straight Jack PCB
Economic Solderless
Connector

P9K724-40ML3



- * Optional screws for thicker PCB's available
- ** Optional flat washer for thinner PCB's
- *** Positioning notches for precision placement; usage acc. to HI_039

All dimensions are in mm

Interface

According to

IEC 61169-65

Documents

PCB Layout

LR_22-0084

Handling Instruction

HI_039

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Brass
PTFE/PEEK

Plating

Gold, min. 1.27 µm, over chemical nickel
AuroDur®, gold plated

Technical Data Sheet

Rosenberger

RPC-1.35

Straight Jack PCB
Economic Solderless
Connector**P9K724-40ML3****Electrical data**

Impedance	50 Ω
Frequency	DC to 90 GHz
Return loss	≥ 21 dB, DC to 26.5 GHz
	≥ 15 dB, 26.5 GHz to 40 GHz
	≥ 14 dB, 40 GHz to 60 GHz
	≥ 10 dB, 60 GHz to 85 GHz
	≥ 7 dB, 85 GHz to 90 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Proof voltage (at sea level)	500 V rms
Working voltage (at sea level)	150 V rms
RF-leakage	≥ 90 dB up to 1 GHz
- Connector only, Return Loss in application depends decisive on PCB layout -	

Mechanical data

Mating cycles	≥ 3000
Mating cycles PCB side	≥ 300 typical (at 20°C, sea level, non-permanent duration)
Mating force PCB side	≤ 20 N
Center contact captivation	≥ 10 N
Coupling test torque	1.65 Nm
Typically torque for the screws	0.15 Nm
Coupling torque recommended	0.80 Nm to 1.00 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
RoHS	compliant

Accessories

Available Screws DIN 7985-H-A2 UNF 0-80 (cylinder head screw) for different PCB lengths.	
3/16" length = Standard (already included with the connector)	DIN7985-H-A2 UNF 0-80x3/16
1/4" length = Optional (PCB thickness min. 1.2 mm to max. 4.2 mm)	DIN7985-H-A2 UNF 0-80x1/4
5/16" length = Optional (PCB thickness min. 2.8 mm to max. 5.7 mm)	DIN7985-H-A2 UNF 0-80x5/16
3/8" length = Optional (PCB thickness min. 4.4 mm to max. 7.4 mm)	DIN7985-H-A2 UNF 0-80x3/8
7/16" length = Optional (PCB thickness min. 6.0 mm to max. 8.9 mm)	DIN7985-H-A2 UNF 0-80x7/16
Flat Washer = Optional 08K723-40M/60L (recommended screw 1/4" for PCB size min. 0 mm to max. 2.4mm)	

Tooling

N/A

Weight

2.5 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	Rev.	Engineering change number	Name	Date
Martin Moder	07.05.21	H. Babinger	04.04.24	a00	24-s120	T. Börgerding	04.04.24
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		Page 2 / 2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[P9K724-40ML3](#)