



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

**Interface**

According to  
Mechanically compatible with

IEC 61169-35  
RPC-3.50 and SMA

**Documents**

PCB Layout

B 208

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric 1  
Dielectric 2  
Screws

**Material**

CuBe  
Brass  
PEEK  
PTFE  
Stainless steel

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Gold, min. 0.8 µm, over chemical nickel

# Technical Data Sheet

# Rosenberger

RPC-2.92

Right Angle Jack PCB

02K243-40ME3

## Electrical data

Impedance	50 $\Omega$
Frequency	DC to 40 GHz
Return loss	$\geq 14$ dB, DC to 40 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 5$ G $\Omega$
Center contact resistance	$\leq 3.0$ m $\Omega$
Outer contact resistance	$\leq 2.0$ m $\Omega$
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	$\geq 100$ dB up to 1 GHz

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

## Mechanical data

Mating cycles	$\geq 500$
Center contact captivation	$\geq 20$ N
Coupling test torque	max. 0.40 Nm
Recommended torque	0.30 Nm

## Environmental data

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

## Tooling

N/A

## Weight

4.3 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	Rev.	Engineering change number	Name	Date
Herbert Babinger	04.08.06	Martin Moder	11.02.16	c00	16-0004	Georg Schiele	11.02.16

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.de](http://www.rosenberger.de)

Tel. : +49 8684 18-0  
Email : [info@rosenberger.de](mailto:info@rosenberger.de)

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