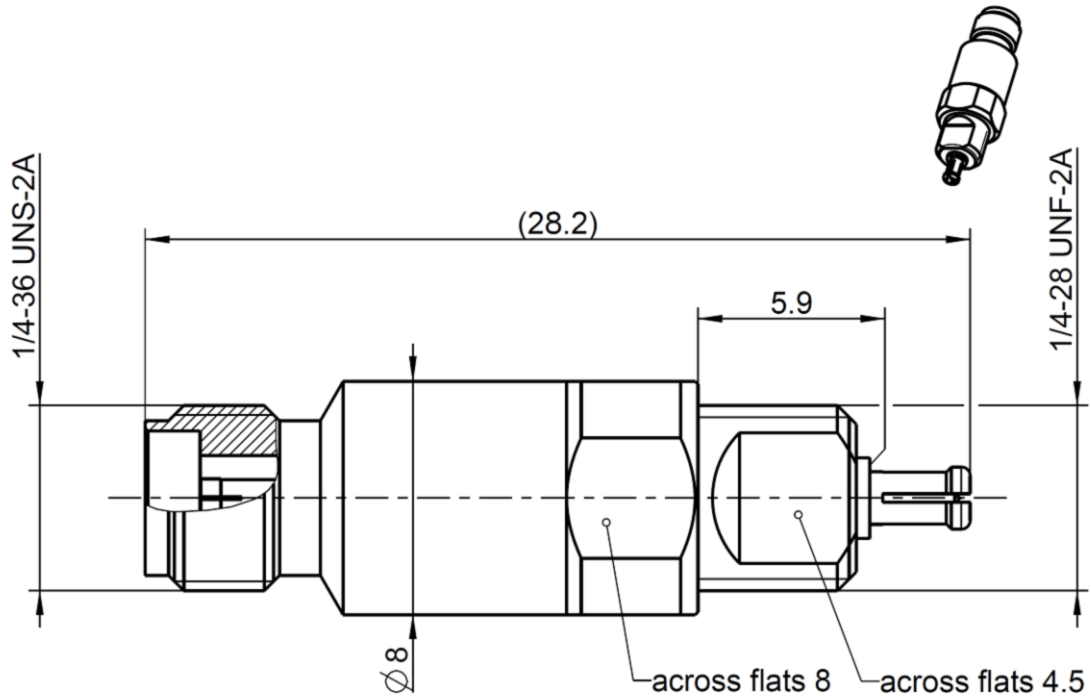


RPC-2.92 Adaptor  
RPC-2.92 JACK –  
Mini-Coax 40 GHz PLUG

**02K123-S00S3**



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

**Interface**

According to  
Mechanically compatible with  
Mini-Coax according to

IEC 61169-35  
RPC-3.50 and SMA  
Rosenberger Mini-Coax

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact Mini-Coax  
Outer contact RPC-2.92  
Dielectric 1  
Dielectric 2

**Material**

CuBe  
CuBe  
Stainless steel  
PS  
PTFE

**Plating**

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.0

# Technical Data Sheet

# Rosenberger

RPC-2.92 Adaptor  
RPC-2.92 JACK –  
Mini-Coax 40 GHz PLUG

## 02K123-S00S3

### Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 26 dB, DC to 18 GHz ≥ 21 dB, 18 GHz to 26.5 GHz ≥ 15 dB, 26.5 GHz to 40 GHz
Insertion loss	≤ 0.04 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-2.92	≤ 3.0 mΩ
Outer contact resistance RPC-2.92	≤ 2.0 mΩ
Center contact resistance Mini-Coax	≤ 10.0 mΩ
Outer contact resistance Mini-Coax	≤ 3.0 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	≥ 80 dB @ DC to 1 GHz ≥ 60 dB @ 1GHz to 4 GHz

### Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Mini-Coax	
Engagement and disengagement force	1 N to 4 N

### 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
RoHS	compliant

### Tooling

N/A

### Weight

Weight 7.1 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
Martin Moder	25.05.16	Martin Moder	09.11.17	300	17-1852	M. Rahberger	09.11.17
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : info@rosenberger.de		Page 2 / 2