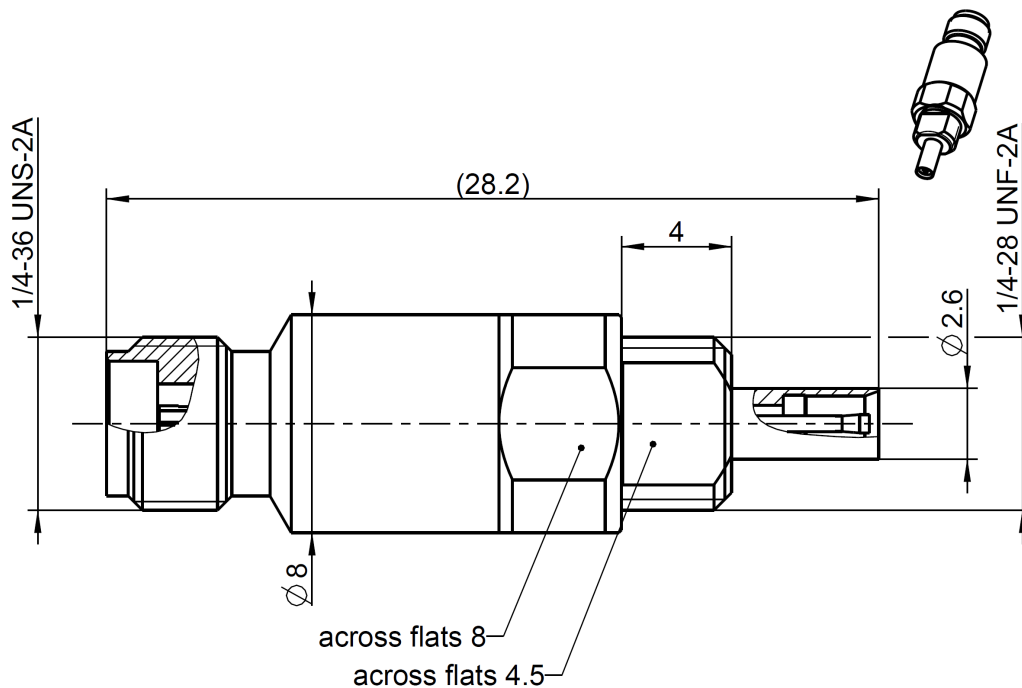


Technical Data Sheet

Rosenberger

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

02K123-K00S3



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
Dielectric 1
Dielectric 2

Material

CuBe
Stainless steel
PS
PTFE

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated

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Technical Data Sheet				Rosenberger			
RPC-2.92		Adaptor RPC-2.92 JACK – Mini-Coax 40 GHz JACK		02K123-K00S3			
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
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