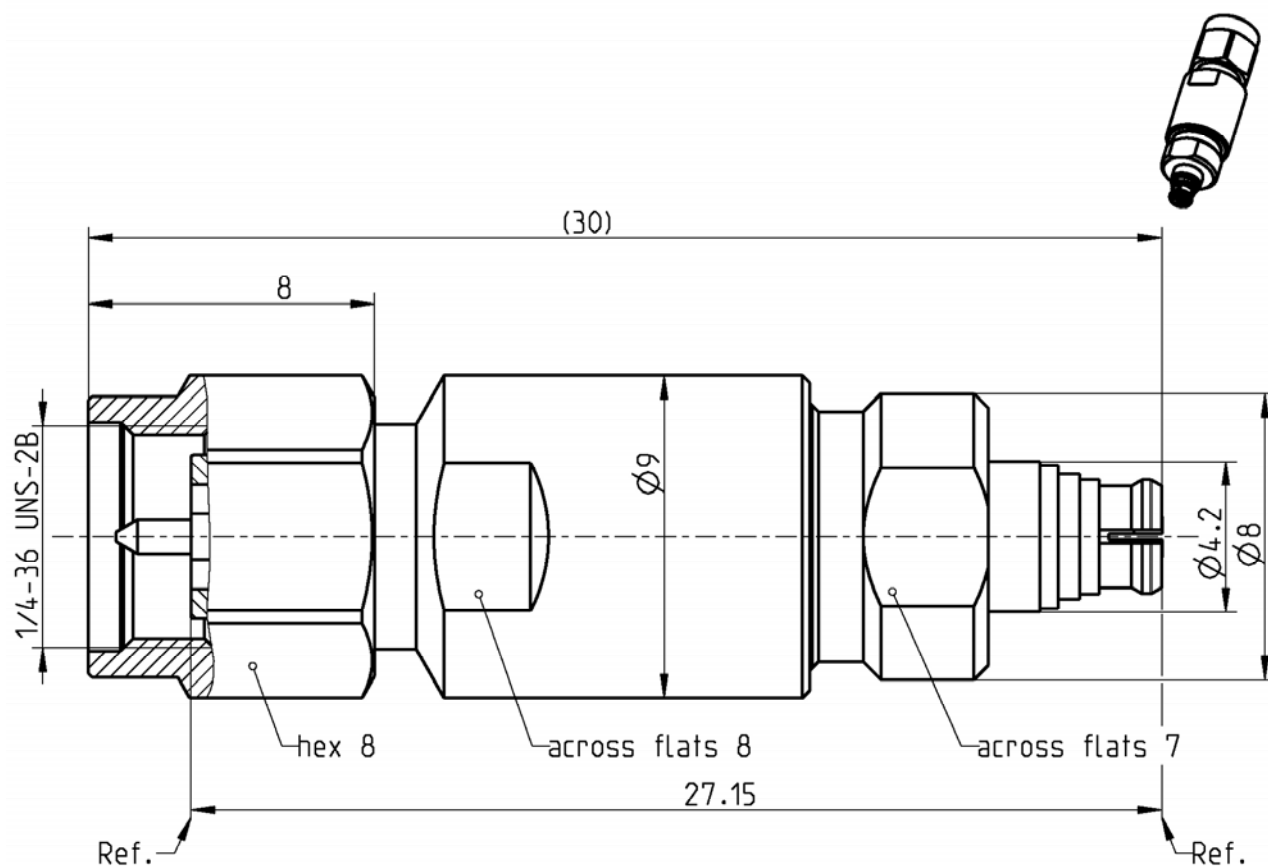




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-2.92 mechanically compatible with
SMP according to

RPC-3.50 and SMA
MIL-STD-348A, Fig. 326

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-2.92
Outer contact SMP
Coupling nut
Dielectric
Gasket

Material

Beryllium copper
Stainless steel
Beryllium copper
Stainless steel
PEEK
Silicone

Plating

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

TECHNICAL DATA SHEET

Rosenberger®

ADAPTOR
RPC-2.92 PLUG – SMP JACK

02S119-K00E3

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 32 dB, DC to 12 GHz
	≥ 26 dB, 12 GHz to 26.5 GHz
	≥ 21 dB, 26.5 GHz to 40 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ 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 SMP	≤ 6.0 mΩ
Outer contact resistance SMP	≤ 2.0 mΩ
Test voltage	500 V rms
Working voltage	250 V rms

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 22 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Engagement force SMP:	
- full detent	68 N max.
- limited detent	45 N max.
- smooth bore	9 N max.
Disengagement force SMP:	
- full detent	22 N min.
- limited detent	9 N min.
- smooth bore	2.2 N min.

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
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	9.2 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	06/12/04	Krautenbacher J.	19/10/06	c00	06-0478	Wallner Markus	19/10/06
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