Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
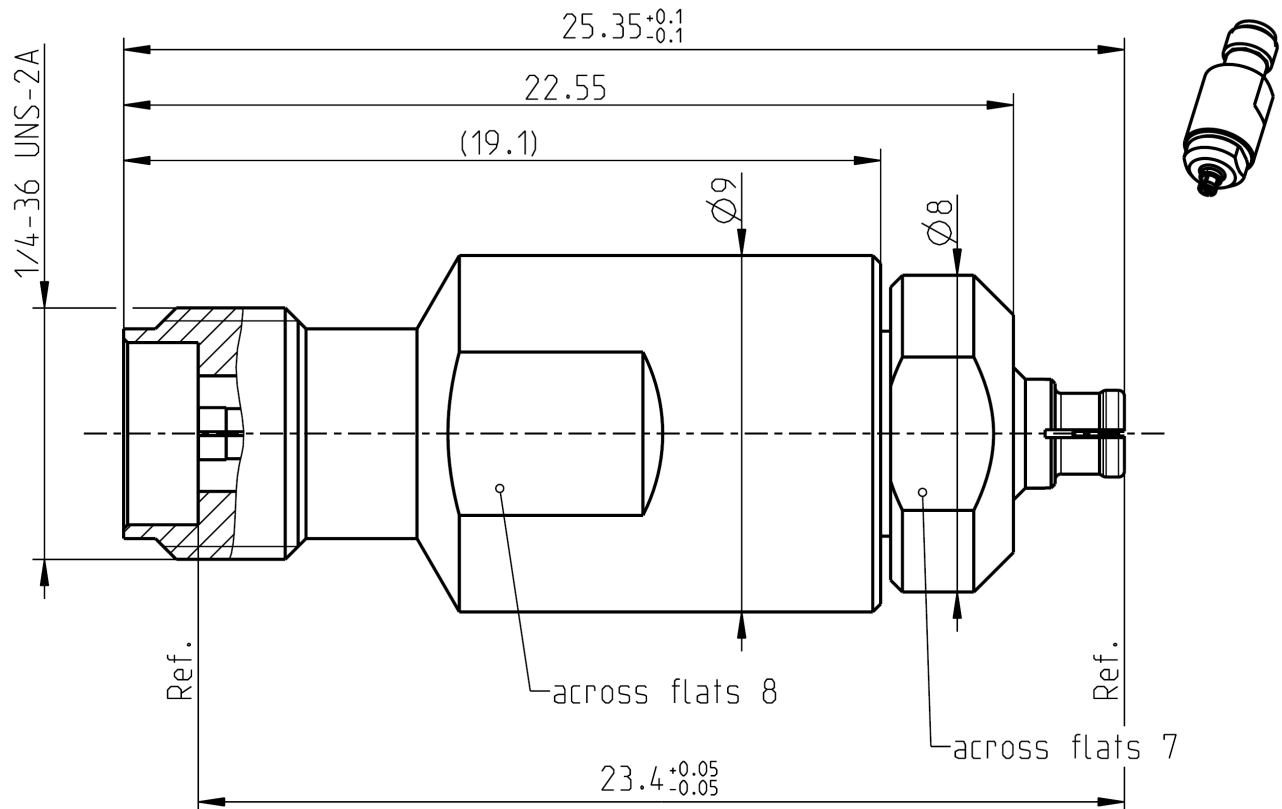

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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

Interface

RPC-2.92 according to	IEC 61169-35
RPC-2.92 mechanically compatible with	RPC-3.50 and SMA
MINI-SMP according to	MIL-STD-348A, Fig. 328
	Mateable with GPPO™ (Gilbert Engineering Co., Inc.)
	and SSMP™ (Connectors Devices, Inc.)

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Outer contact RPC-2.92	Stainless steel	Passivated
Outer contact MINI-SMP	Beryllium copper	Gold, min. 0.8 µm, over chemical nickel
Dielectric 1	PS	
Dielectric 2	PTFE	

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| 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 1 / 2 |

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 30 dB, DC to 12 GHz
	≥ 26 dB, 12 GHz to 20 GHz
	≥ 18 dB, 20 GHz to 40 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ 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-SMP	≤ 6.0 mΩ
Outer contact resistance MINI-SMP	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	250 V rms

Mechanical data

Mating cycles RPC-2.92	≥ 500
Mating cycles MINI-SMP	
- if mating part is smooth bore	≥ 500
- if mating part is full detent	≥ 100
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
Engagement force MINI-SMP	
- if mating part is smooth bore	11 N max.
- if mating part is full detent	19 N max.
Disengagement force MINI-SMP	
- if mating part is smooth bore	11 N max.
- if mating part is full detent	29 N max.

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

Packing

Standard	1 pce in box
Weight	6.7 g/pce

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Herbert Babinger	21/12/04	Martin Moder	08/07/14	c00	12-0205	Maik Knoll	08/07/14

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