



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



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RF_35/05.10/6.0

Technical Data Sheet		Rosenberger										
RPC-2.92	SMD Connector jack	02K80F-40ML5										
<div>Remove transport lock before use.</div> <p>ca. 10.2</p> <p>10</p> <p>1/4-36 UNS-2A</p> <p>Z</p> <p>A</p> <p>1.5 max. ¹⁾</p> <p>M2</p> <p>2</p> <p>Y</p> <p>X</p> <p>view X without screws and plate</p> <p>3.5</p> <p>3.5</p> <p>1.2</p> <p>2</p> <p>5.2</p> <p>2x $\varnothing 1.2_{-0.03}$</p> <p>Allen screw 1.5</p> <p>6°</p> <p>11</p> <p>7</p> <p>5</p> <p>13</p> <p>ca. 18</p> <p>2x $\varnothing 0.05$ A B C</p> <p>detail Z</p> <p>B</p> <p>0.12_{-0.08}</p> <p>0.15_{-0.13}</p> <p>detail Y</p> <p>0.05 C</p> <p>C</p>												
<p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <table><tr><td>Interface</td><td>IEC 61169-35</td></tr><tr><td>According to</td><td>RPC-3.50 and SMA</td></tr><tr><td>Mechanically compatible with</td><td></td></tr><tr><td>Documents</td><td>MB 425</td></tr><tr><td>PCB layout</td><td></td></tr></table>			Interface	IEC 61169-35	According to	RPC-3.50 and SMA	Mechanically compatible with		Documents	MB 425	PCB layout	
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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										
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Technical Data Sheet				Rosenberger			
RPC-2.92		SMD Connector jack		02K80F-40ML5			
Material and plating							
Connector parts		Material		Plating			
Center contact		CuBe		AuroDur®, gold plated			
Outer contact PCB side		CuBe or equiv.		AuroDur®, gold plated			
Outer contact RPC-2.92 side		CuBe or equiv.		AuroDur®, gold plated			
Dielectric		PEEK					
Electrical data							
Impedance		50 Ω					
Frequency		DC to 40 GHz					
Return loss		≥ 21 dB, DC to 26.5 GHz					
		≥ 19 dB, 26.5 GHz to 40 GHz					
Insertion loss		≤ 0.04 x √f(GHz) dB					
Insulation resistance		≥ 5 GΩ					
Test voltage		750 V rms					
Working voltage		250 V rms					
- Return loss in application depends decisive on PCB layout -							
Mechanical data							
Mating cycles PCB side		≥ 300					
Mating cycles RPC-2.92 side		≥ 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					
Recommended torque Allen screw 1.5		0.20 Nm to 0.30 Nm					
PCB thickness max. ¹		1.5 mm typical; dimension expandable with longer screws					
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		N/A (connector is only screwed on, not soldered)					
RoHS		compliant					
Tooling							
Allen wrench 1.5 mm							
Packing							
Standard		1 pce in box					
		50 pcs in blister					
Weight		6.7 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
M. Scherbauer	26.01.18	Herbert Babinger	26.01.18	a00	18-s051	Georg Schiele	26.01.18
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