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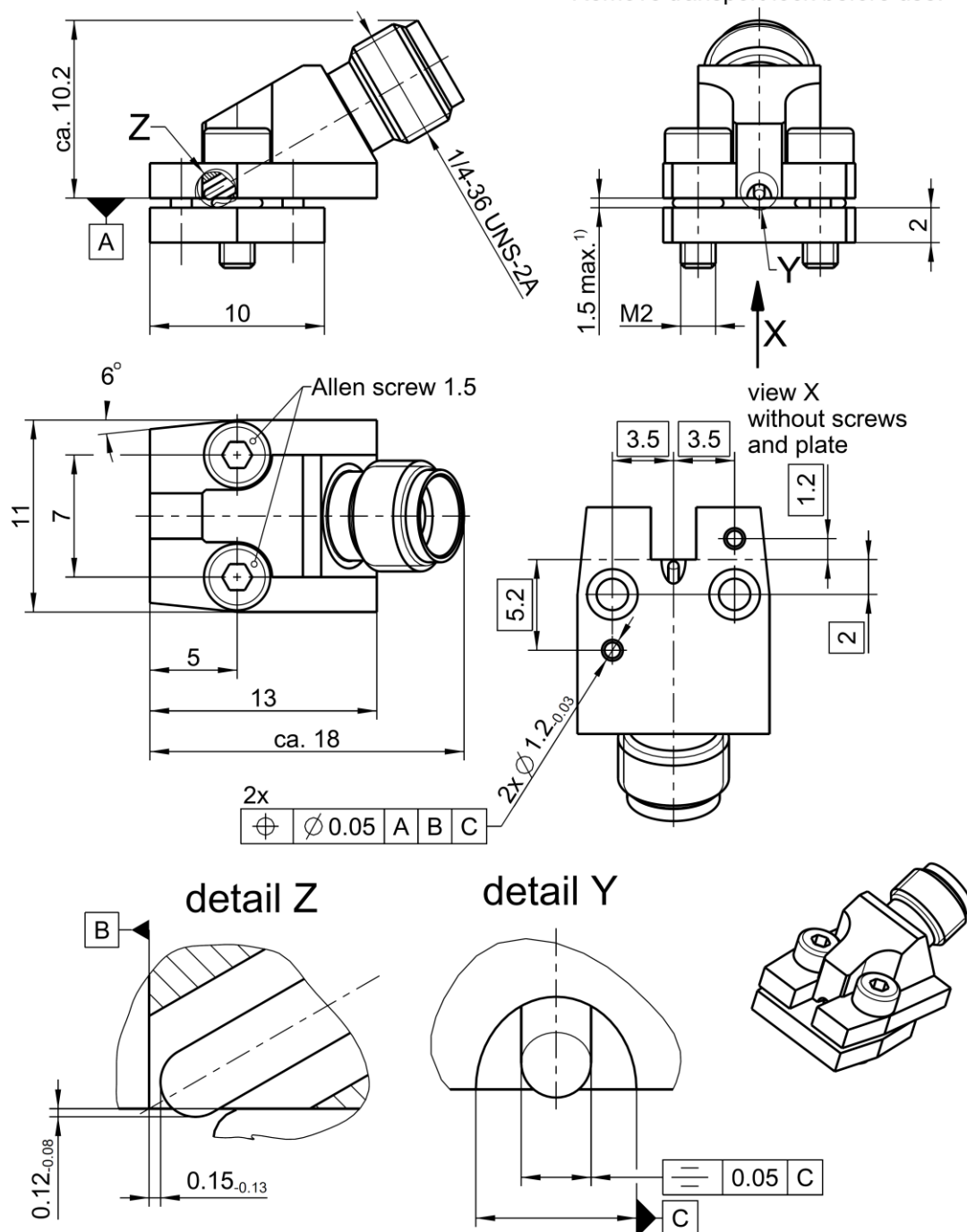
Technical Data Sheet

Rosenberger

RPC-2.92 SMD Connector jack

02K80F-40ML5

Remove transport lock before use.



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

Interface

According to
Mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA

Documents

PCB layout
Handling Instruction

MB 425
HI_016

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Material and plating <table><tr><td colspan="2">Connector parts</td><td>Material</td><td>Plating</td></tr><tr><td colspan="2">Center contact</td><td>CuBe</td><td>AuroDur®, gold plated</td></tr><tr><td colspan="2">Outer contact PCB side</td><td>CuBe or equiv.</td><td>AuroDur®, gold plated</td></tr><tr><td colspan="2">Outer contact RPC-2.92 side</td><td>CuBe or equiv.</td><td>AuroDur®, gold plated</td></tr><tr><td colspan="2">Dielectric</td><td>PEEK</td><td></td></tr></table> Electrical data <table><tr><td>Impedance</td><td>50 Ω</td></tr><tr><td>Frequency</td><td>DC to 40 GHz</td></tr><tr><td>Return loss</td><td>≥ 21 dB, DC to 26.5 GHz ≥ 19 dB, 26.5 GHz to 40 GHz</td></tr><tr><td>Insertion loss</td><td>≤ 0.04 x √f(GHz) dB</td></tr><tr><td>Insulation resistance</td><td>≥ 5 GΩ</td></tr><tr><td>Test voltage</td><td>750 V rms</td></tr><tr><td>Working voltage</td><td>250 V rms</td></tr></table> - Return loss in application depends decisive on PCB layout - Mechanical data <table><tr><td>Mating cycles PCB side</td><td>≥ 300</td></tr><tr><td>Mating cycles RPC-2.92 side</td><td>≥ 500</td></tr><tr><td>Center contact captivation</td><td>≥ 20 N</td></tr><tr><td>Coupling test torque RPC-2.92</td><td>1.70 Nm</td></tr><tr><td>Recommended torque RPC-2.92</td><td>0.80 Nm to 1.10 Nm</td></tr><tr><td>Recommended torque Allen screw 1.5</td><td>0.20 Nm to 0.30 Nm</td></tr><tr><td>PCB thickness max.¹</td><td>1.5 mm typical; dimension expandable with longer screws</td></tr></table> Environmental data <table><tr><td>Temperature range</td><td>-40°C to +85°C</td></tr><tr><td>Thermal shock</td><td>MIL-STD-202, Method 107, Condition B</td></tr><tr><td>Corrosion</td><td>MIL-STD-202, Method 101, Condition B</td></tr><tr><td>Vibration</td><td>MIL-STD-202, Method 204, Condition D</td></tr><tr><td>Shock</td><td>MIL-STD-202, Method 213, Condition I</td></tr><tr><td>Moisture resistance</td><td>MIL-STD-202, Method 106</td></tr><tr><td>Max. soldering temperature</td><td>N/A (connector is only screwed on, not soldered)</td></tr><tr><td>RoHS</td><td>compliant</td></tr></table> Tooling Allen wrench 1.5 mm Packing <table><tr><td>Standard</td><td>1 pce in box 50 pcs in blister</td></tr><tr><td>Weight</td><td>6.7 g/pce</td></tr></table>								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		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	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	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	Standard	1 pce in box 50 pcs in blister	Weight	6.7 g/pce
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Данный компонент на территории Российской Федерации

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