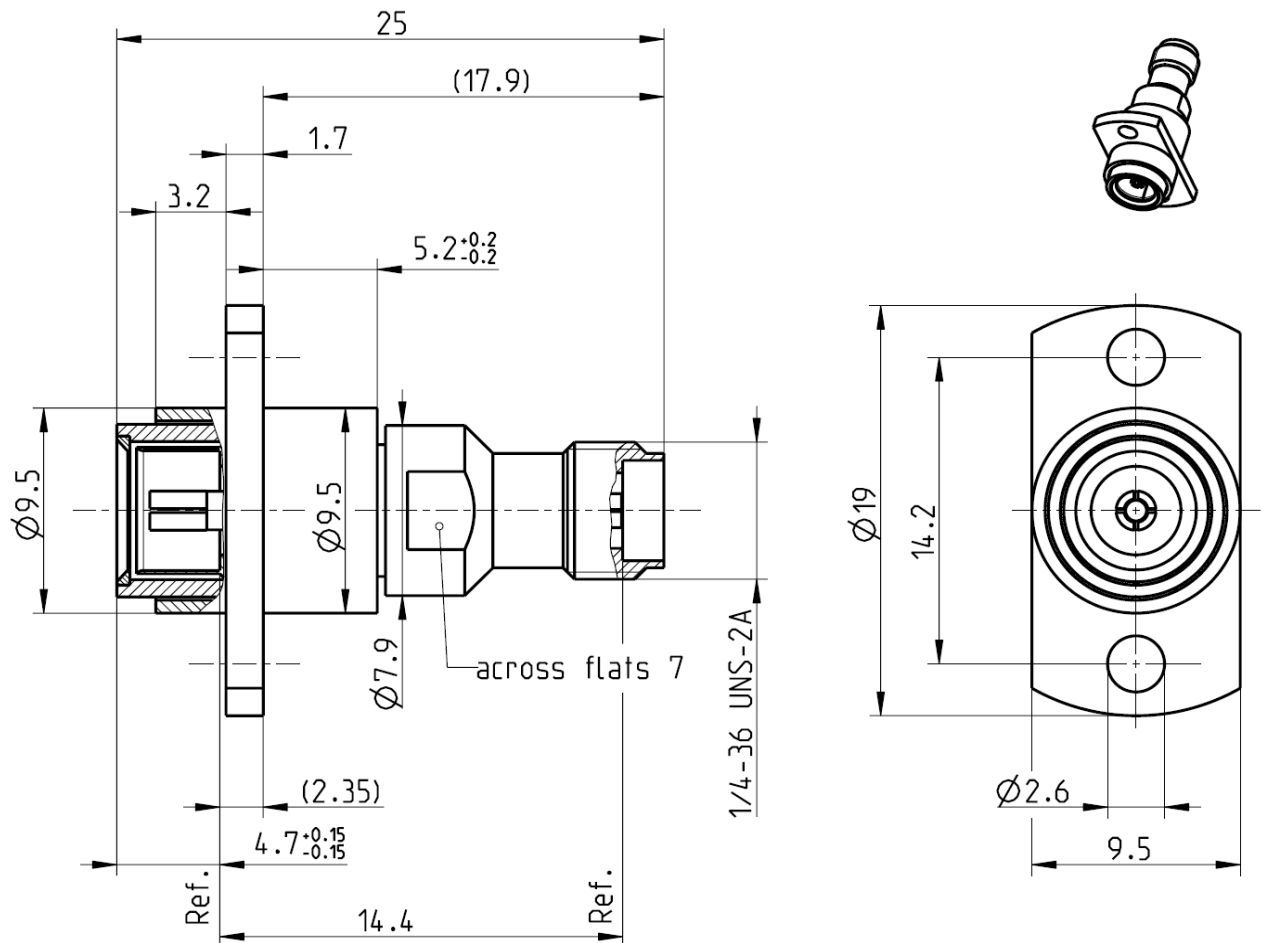




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-SP according to
RPC-SP mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA
MIL-STD 348A and IEC 61169-33
OSP and BMA

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-3.50
Outer contact RPC-SP
Body
Flange
Dielectric

Material

CuBe
Stainless steel
Brass
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Flash white bronze over silver(e.g. Optargen®)
Passivated
Passivated

Technical Data Sheet				Rosenberger			
Floating Adaptor RPC-3.50 jack – RPC-SP jack				03K710-K22S3			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 22 GHz					
Return loss		≥ 26 dB, DC to 18 GHz					
		≥ 23 dB, 18 GHz to 22 GHz					
Insertion loss		≤ 0.05 x √f(GHz) dB					
Insulation resistance		≥ 5 GΩ					
Test voltage (at sea level)		1000 V rms					
Working voltage (at sea level)		335 V rms					
RF-leakage		≥ 85 dB up to 1 GHz					
Mechanical data							
Mating cycles RPC-3.50		≥ 500					
Mating cycles RPC-SP		≥ 1000					
Center contact captivation		≥ 27 N					
Coupling test torque RPC-3.50		1.70 Nm					
Recommended torque RPC-3.50		0.80 Nm to 1.10 Nm					
Engagement force RPC-SP		≤ 13.5 N					
Disengagement force RPC-SP		≥ 2 N					
Misalignment		radial 0.15 mm min.					
Spring force		min. 13 N at rest					
		max. 20 N at max. spring travel					
Spring travel		1.5 mm 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					
Suitable cables							
		N/A					
Weight							
		8.9 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
H. Babinger	09.04.09	F. Reiner	26.06.18	b01	18-1026	M. Ruf	25.06.18
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