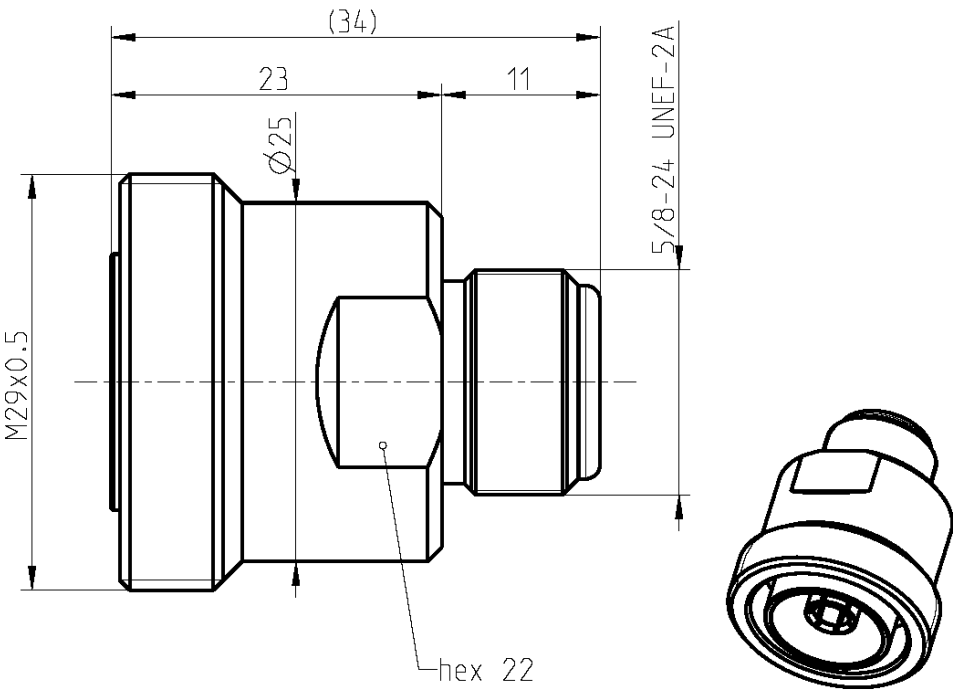


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RF_35/05.10/6.0

Technical Data Sheet - Draft		Rosenberger
N – 7/16	Adaptor N Jack – 7/16 Jack	53K160-KIMN1
		
All dimensions are in mm; tolerances according to ISO 2768 m-H		
Interface		
According to	N side: 7/16 side:	IEC 61169-16, MIL-PRF-39012, CECC 22210 IEC 61169-4, EN 122190, DIN 47223
Material and plating		
Connector parts	Material	Plating
Center contact	CuBe or equiv.	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
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Technical Data Sheet - Draft				Rosenberger			
N – 7/16		Adaptor N Jack – 7/16 Jack		53K160-KIMN1			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 8.3 GHz					
Return loss		≥ 30 dB @ DC to 3 GHz					
		≥ 27 dB @ 3 GHz to 7 GHz					
		≥ 23 dB @ 7 GHz to 8.3 GHz					
Insertion loss		≤ 0.05 x √f [GHz] dB					
Insulation resistance		≥ 10 GΩ					
Center contact resistance		≤ 0.4 mΩ					
Outer contact resistance		≤ 1.5 mΩ					
Working voltage (at sea level)		500 V rms					
Power handling (at 20 °C, sea level, VSWR 1.0)		1400 W @ 1 GHz					
		700 W @ 2 GHz					
RF-leakage		≥ 128 dB @ DC to 1 GHz					
Intermodulation (3 rd order)		≤ -128 dBm @ 2 x 20 W					
Mechanical data							
		N side		7/16 side			
Mating cycles		≥ 500		≥ 500			
Center contact captivation:		axial		≥ 200 N			
		radial		≥ 3 Ncm			
Coupling torque (recommended)		0.7 to 1.1 Nm		25 to 30 Nm			
Proof torque		≤ 1.7 Nm		≤ 35 Nm			
Environmental data							
Temperature range		-55 °C to +155 °C					
Thermal shock		MIL-STD-202, Method 107, Condition B					
Corrosion resistance		MIL-STD-202, Method 101, Condition B					
Vibration		MIL-STD-202, Method 204, Condition B					
Shock		MIL-STD-202, Method 213, Condition I					
Moisture resistance		MIL-STD-202, Method 106					
Degree of protection (mated pair)		IEC 60529, IP68 2.5 bar 1 h					
RoHS		compliant					
Weight							
Weight		TBD 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
Martin Wimmer	30.07.2013	J_Gramsamer	15.04.15	300	15-0397	J_Krautenb.	15.04.15
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