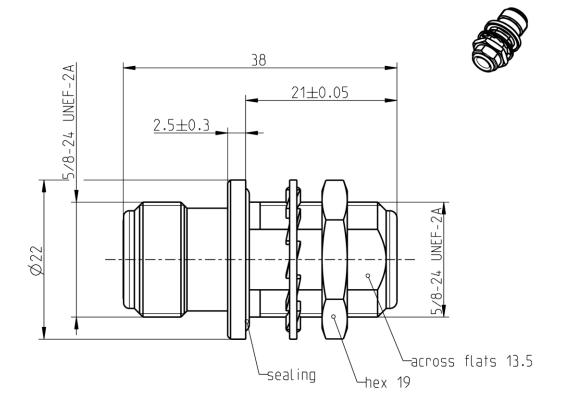
Technical Data Sheet		Rosenberger		
Ν 50 Ω	Adaptor Jack – Jack	53K503-K00N5		



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

Documents Panel piercing	 B 13	
Material and plating	Motorial	Distince

Connector partsMaterialPlatingCenter contactSpring bronzeAuroDur®, gold platedOuter contactBrassFlash white bronze over silver(e.g. Optargen®)DielectricPTFE

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Technical Data Sheet		Rosenberger		
Ν 50 Ω	Adaptor Jack – Jack	53K503-K00N5		

≥ 22 dB @ 4 GHz to 9 GHz

Electrical data

 $\begin{array}{ll} \text{Impedance} & \quad 50 \ \Omega \\ \text{Frequency} & \quad \text{DC to 11 GHz} \end{array}$

Return loss \geq 32 dB @ DC to 2 GHz \geq 25 dB @ 2 GHz to 4 GHz

Insertion loss $\leq 0.1 \text{ x } \sqrt{f \text{ [GHz]}} \text{ dB}$

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 5 \ \mbox{G}\Omega \\ \mbox{Center contact resistance} & \leq 1 \ \mbox{m}\Omega \\ \mbox{Outer contact resistance} & \leq 0.25 \ \mbox{m}\Omega \\ \mbox{Working voltage (at sea level)} & 500 \ \mbox{V rms} \\ \end{array}$

Power handling (at 20 °C, sea level, VSWR 1.0) 1000 W @ 1 GHz 700 W @ 2 GHz

RF-leakage \geq 128 dB @ DC to 1 GHz Intermodulation 3rd order \geq 115 dBm (2 x 43 dBm)

Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Center contact captivation: axial} & \geq 28 \text{ N} \\ \text{Coupling test torque} & \leq 1.7 \text{ Nm} \\ \end{array}$

Recommended torque 0.7 Nm to 1.1 Nm

Environmental data

Temperature range

-45 °C to +85 °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, IP67 RoHS compliant

Tooling

N/A

Suitable cables

N/A

Weight 45.9 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Andreas Fellner	15.11.07	Chr. Janßen	25.01.21	f00	20-1927	S. Huber-Siegl	25.01.21

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