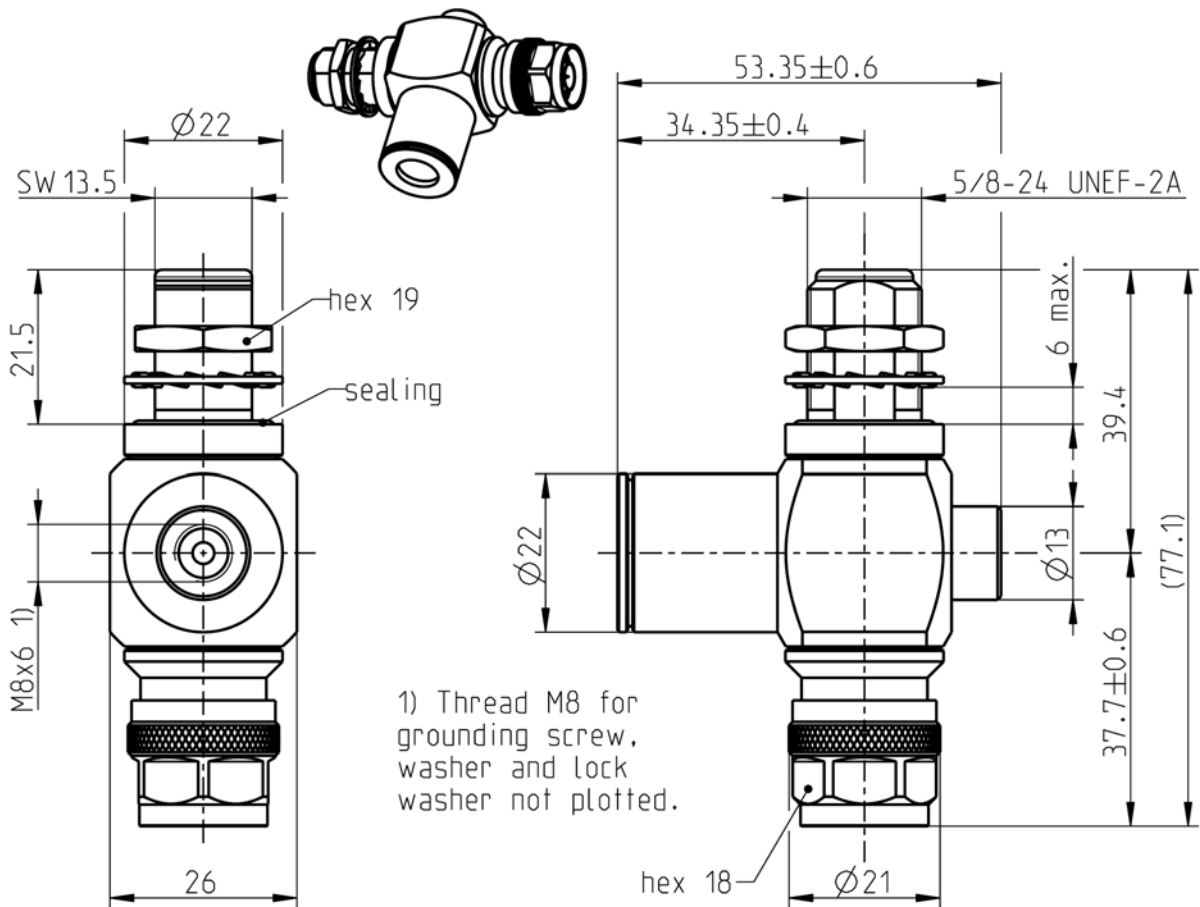


N 50 Ω SURGE ARRESTER  
JACK - PLUG

**53HK565-S00N1**



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

**Interface**

According to IEC 60169-16, MIL-STD-348, CECC 22210

**Documents**

Panel piercing B 13

**Material and plating**

**Connector parts**

Center contact jack side  
Center contact plug side  
Outer contact  
Body  
Dielectric  
Gasket

**Material**

Spring bronze  
Brass  
Brass  
Brass  
PTFE  
Silicone

**Plating**

Silver, 3-6 µm  
Silver, 3-6 µm  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

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**53HK565-S00N1**

**Electrical data**

Impedance	50 Ω
Operating frequency	698 to 2700 MHz
Return Loss	≥ 21 dB, 698 to 800 MHz ≥ 26 dB, 800 to 960 MHz ≥ 24 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2200 MHz ≥ 24 dB, 2200 to 2500 MHz ≥ 21 dB, 2500 to 2700 MHz
Insertion Loss	≤ 0.1 dB
Center contact resistance	< 5 mΩ
Outer contact resistance	< 5 mΩ
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz
RF-leakage	≥ 128 dB @ 1 GHz
Intermodulation (3 <sup>rd</sup> Order)	< -117 dBm @ 2 x 20 W
Nominal impulse discharge current	50 kA (8/20 μs)
Residual voltage	< 130 V @ 20kA, 8/20 μs < 15 V @ 4kV 1.2/50μs, 2kA 8/20 μs
Residual energy	< 25 μJ

**Mechanical data**

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling torque (recommended)	0.7 to 1.1 Nm
Proof torque	max. 1.7 Nm

**Environmental data**

Temperature range	-45°C to +85°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection	IEC 60529, IP68 2.5 bar (mated condition)
RoHS	compliant

**Weight**

Weight	210 g/pce
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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.Schütt	04.03.10	Sa. Krautenbacher	18.03.14	300	14-0352	T. Krojer	18.03.14
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2