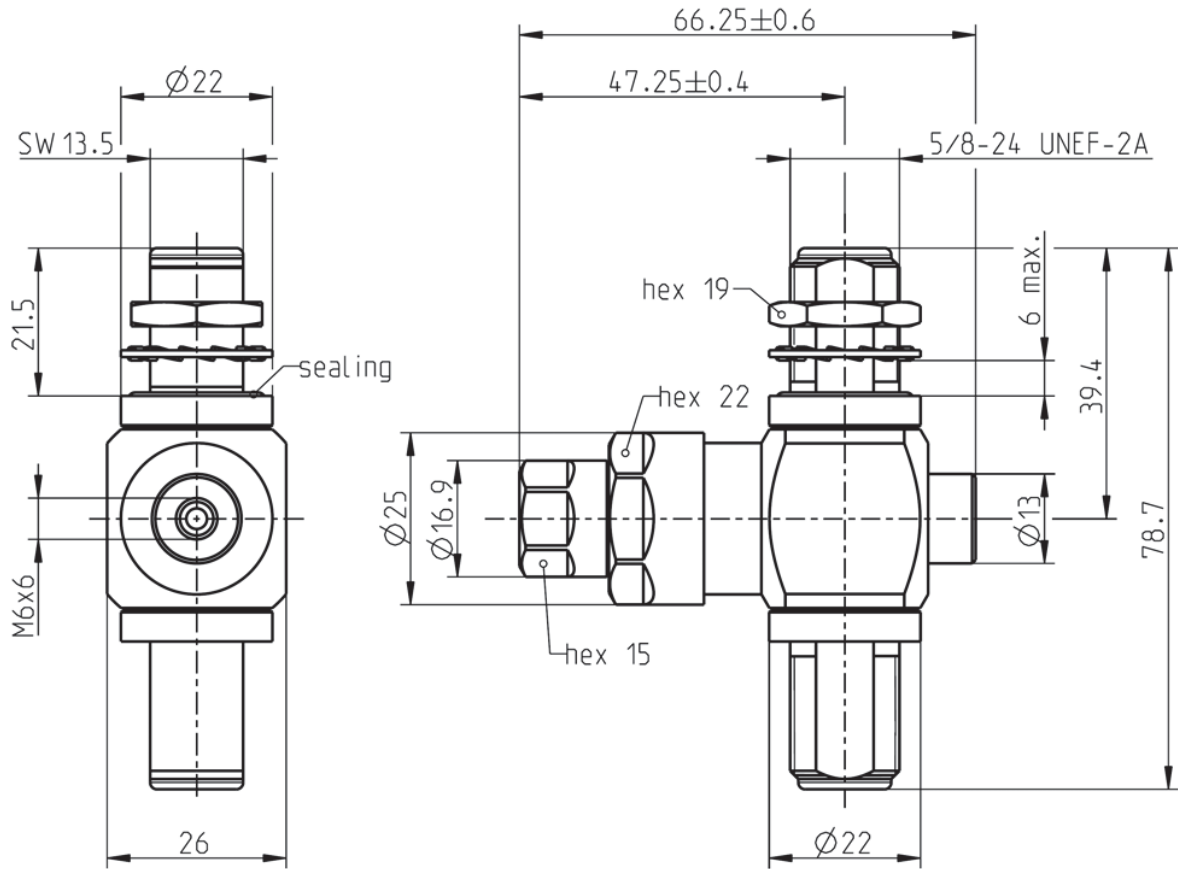


N 50 Ω

Surge Arrester
Jack – Jack (Fine protection)

53EK565-K220N1



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

Interface

According to IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

Panel piercing B 13

Material and plating

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric
- Gasket
- Gasket

Material

- Spring bronze
- Brass
- Brass
- PTFE
- Silicone
- NBR

Plating

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

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N 50 Ω

Surge Arrester
Jack – Jack (Fine protection)

53EK565-K220N1

Electrical data

Impedance 50 Ω
 Operating frequency 698 to 2500 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 30 W (at 20 °C, sea level, VSWR 1.0)
 RF-leakage ≥ 128 dB up to 1 GHz
 Intermodulation (3rd order) ≤ -117 dBm @ 2 x 20 W
 DC current 2 A
 DC voltage + 15 V, nom.
 Residual voltage ≤ 40 V @ 4 kV 1.2/50 μs, 2 kA 8/20 μs

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 231 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
Gramsamer Josef	25/05/10	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 www.rosenberger.de					Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : info@rosenberger.de		Page 2 / 2

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