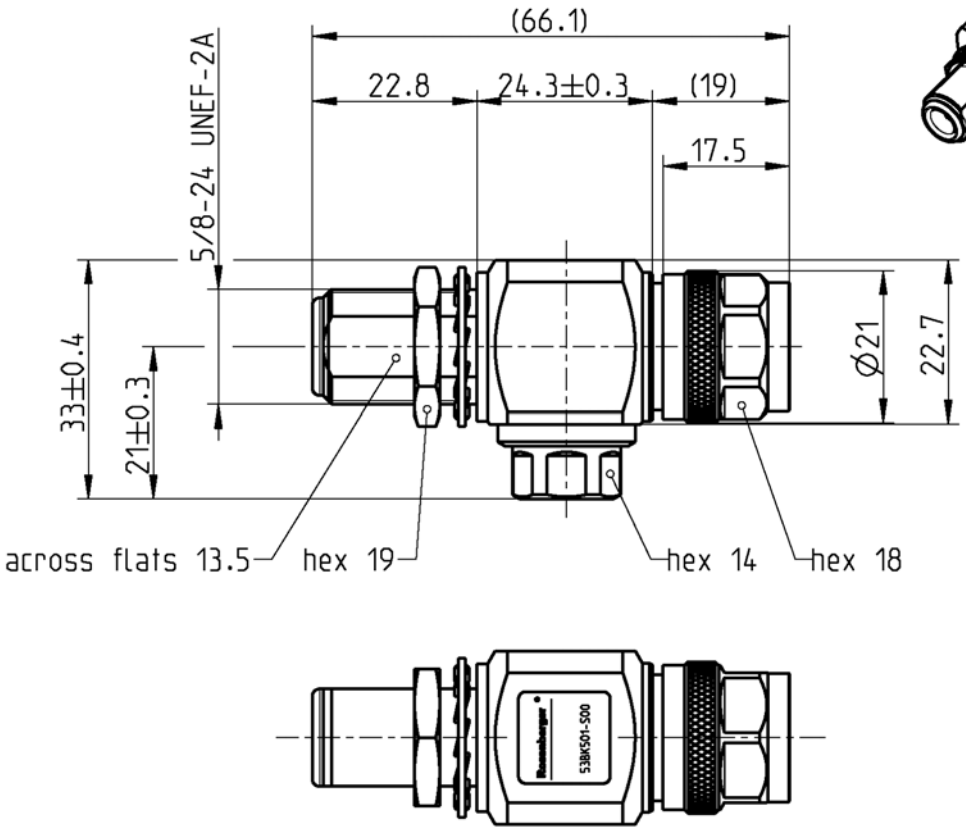
TECHNICAL DATA SHEET	Rosenberger®
N 50 Ω SURGE ARRESTER WITH GAS CAPSULE JACK-PLUG	www.pewtronic.cz **PLU010164**



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

Interface

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

Documents

Assembly instruction	53 MV-A001
Panel piercing	B 13

Material and plating

Connector parts	**Material**	**Plating**
Center contact jack side	Beryllium copper	Silver, 3-6 µm
Center contact plug side	Brass	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PS	
Gasket	Silicone	
Gasket	NBR	

RF_35/12.04/3.0

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Electrical data

Impedance	50 Ω		
Frequency	DC to 3 GHz		
Return loss	≥ 30 dB, DC to 1 GHz		
	≥ 17 dB, 1 to 2 GHz		
	≥ 10 dB, 2 to 3 GHz		
Insertion loss	≤ 0.1 dB, DC to 1 GHz		
Insulation resistance	≥ 5 x10^3 MΩ		
Center contact resistance	≤ 1 mΩ		
Outer contact resistance	≤ 0.25 mΩ		
Power handling (at 20 °C, sea level, VSWR 1.0)	$P=U^2/R$ (W) (depending on the gas capsule)		
RF-leakage	≥ 128 dB up to 1 GHz		
Nominal impulse discharge current	20 kA, Wave 8/20 µS		
Ratet threshold voltage DC	90 V,	Gas capsule order no.:	53Z B01-090
(depending on the gas capsule(not included))	230 V,	Gas capsule order no.:	53Z B01-230
	350 V,	Gas capsule order no.:	53Z B01-350
Ratet discharge current	20 A AC		
Attack time	8 µs		

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm
Screw tightening torque with gas capsule	9 Nm min.

Environmental data

Temperature range	-25°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 (mated pair)	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in bag
Weight	136.0 g/pce

Draft	Date	Approved	Date
Inge Mühlauer	22/06/04	E.Schwangler	23/11/07

Rev.	Engineering change number	Name	Date
d00	07-0823	S_Krautenb.	23/11/07

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