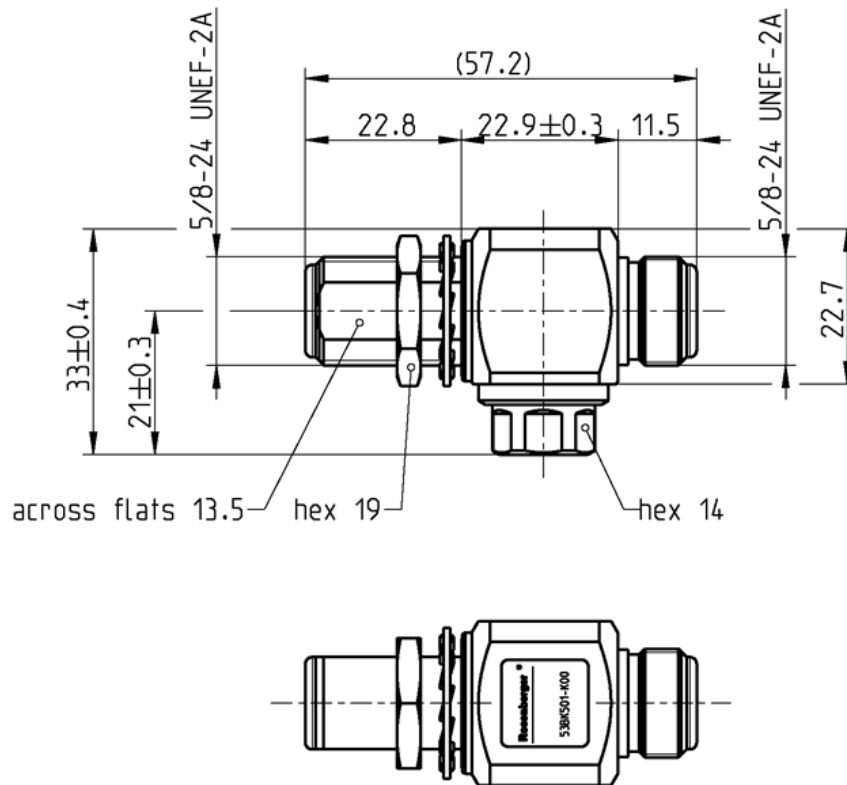


All dimensions are in mm

Interface

According to

IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

Assembly instruction
Panel piercing

53 MV-A001
B 13

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket
Gasket

Material

CuBe
Brass
Brass
PS
Silicone
NBR

Plating

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

Technical Data Sheet

Rosenberger

N 50 Ω

Surge Arrestor
GDT technology – Jack-Jack

53BK501-K00N1

Electrical data

Impedance	50 Ω
Frequency	DC to 3 GHz
Return loss	≥ 30 dB @ DC to 1 GHz ≥ 17 dB @ 1 GHz to 2 GHz ≥ 10 dB @ 2 GHz to 3 GHz
Insertion loss	≤ 0.1 dB DC to 1GHz
Insulation resistance	≥ 5 GΩ
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 @ DC 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
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

Weight

Weight	118 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.

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Schmid	09.01.25	M. Schmid	13.01.25	e00	25-0073	S. Frey	10.01.25
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