



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

Center contact
Outer contact
Body
Dielectric
Gasket
Gasket

Material

Beryllium copper
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®)

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
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	118.0 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
Inge Mühlauer	22/06/04	E.Schwangler	23/11/07	d00	07-0823	S_Krautenb.	23/11/07
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