



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

Available Variants

Order No.	Nom. DC spark over voltage	Gas capsule
60BK531-S090N1	90 V	53ZB01-090
60BK531-S230N1	230 V	53ZB01-230
60BK531-S350N1	350 V	53ZB01-350

Interface

According to IEC 61169-4, EN 122190, DIN 47223

Documents

Assembly instruction 53 MV-A001
Panel piercing B 75

Material and Plating

Connector parts

Center contact jack side	Material Spring bronze	Plating 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	PTFE	
Gasket	Silicone	

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RF_35/05.10/6.0

Electrical Data

Impedance	50 Ω
Frequency	DC to 2.2 GHz
Return loss	≥ 30 dB @ DC to 1.5 GHz ≥ 22 dB @ 1.5 GHz to 1.9 GHz ≥ 16 dB @ 1.9 GHz to 2.2 GHz
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 10 GΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 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 (8/20 μs)
Nom. DC spark over voltage	see table on page one

Mechanical Data

Mating cycles	≥ 500
Coupling nut retention	≥ 1000 N
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling torque (recommended)	25 to 30 Nm
Proof torque	≤ 35 Nm
Screw tightening torque with gas capsule	9 Nm min.

Environmental Data

Temperature range	-45 °C to +85 °C
Rapid change of temperature	DIN EN 122190, Sub-clause 4.6.7
Corrosion resistance	DIN EN 122190, Sub-clause 4.6.10
Vibration	DIN EN 122190, Sub-clause 4.6.3
Climatic category	DIN EN 122190, Sub-clause 4.6.5 (45/85/56)
Damp heat	DIN EN 122190, Sub-clause 4.6.6
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar
RoHS	compliant

Weight

Weight	340 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
M. Wimmer	07.05.13	Sa. Krautenbacher	20.03.14	c00	14-0352	T. Krojer	20.03.14
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