



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

**Available Variants**

Order No.	Nom. DC spark over voltage	Gas capsule
60BK531-K090N1	90 V	53ZB01-090
60BK531-K230N1	230 V	53ZB01-230
60BK531-K350N1	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 Spring bronze  
Outer contact Brass  
Body Brass  
Dielectric PTFE  
Gasket Silicone

**Plating**

Silver, 3-6 µm  
Flash white bronze over silver(e.g. Optargen®)  
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RF\_35/05.10/6.0

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Surge Arrester  
Bulkhead Jack - Jack

**60BK531-KXXXN1**

**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 <sup>2</sup> /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	332 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	300	14-0352	T. Krojer	20.03.14
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2