



All dimensions are in mm

**Interface**

According to

MIL-STD-348

Mateable with GPPO™ (Gilbert Engineering Co., Inc.)  
and SSMP™ (Connectors Devices, Inc.)

**Documents**

PCB layout  
Tape & reel packaging

B 209  
VG45.1M500

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric

**Material**

CuBe  
Brass  
PEEK

**Plating**

AuroDur®, gold plated  
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RF\_35/09.14/6.2

**Electrical data**

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 19 dB, DC to 26.5 GHz ≥ 13 dB, 26.5 to 40 GHz ≥ 9 dB, 40 to 65 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Working voltage (at sea level)	325 V rms
(at 70000 feet)	125 V rms

- VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	≥ 100
Center contact captivation	≥ 5 N
Engagement force	
- smooth bore	11 N typical
Disengagement force	
- smooth bore	11 N typical

**Environmental data**

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition A
Shock	MIL-STD-202, Method 213, Condition A
Moisture resistance	MIL-STD-202, Method 106
Climatic Category	IEC 60068 55/155/21
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 0.3 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.

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
S. Andorfer	01.04.25	H. Babinger	01.04.25	g01	25-0545	T. Börgerding	01.04.25