



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

**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 203

VG50.2M500

**Material and plating**

**Connector parts**

Center contact

Outer contact

Dielectric

**Material**

CuBe

Brass

PTFE

**Plating**

AuroDur®, gold plated

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**Electrical data**

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 26 dB @ DC to 6 GHz ≥ 19 dB @ 6 GHz to 18 GHz ≥ 14 dB @ 18 GHz to 26.5 GHz
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6 mΩ
Outer contact resistance	≤ 2 mΩ
Working voltage (at sea level)	325 V rms
(at 70000 feet)	125 V rms

*Return loss in application depends decisive on PCB layout*

**Mechanical data**

Mating cycles	≥ 100
Center contact captivation	≥ 7 N
Engagement force	19 N typical
Disengagement force	29 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 B
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 0.4 g/pce

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



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