



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

Interface

According to IEC 60169-10, CECC 22130, US MIL-c-39012

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric

Material

Brass
Brass
Brass
PTFE

Plating

AuroDur, gold plated
AuroDur, gold plated
Gold, min. 0.8 µm, over nickel

SMB ADAPTOR
PLUG - PLUG**59S101-S00L5****Electrical data**

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 23 dB, DC to 1 GHz ≥ 20 dB, 1 to 4 GHz
Insertion loss	$\leq 0.05 \sqrt{f(\text{GHz})} \times$ dB
Insulation resistance	$\geq 1 \times 10^3$ M Ω
Center contact resistance	≤ 5 m Ω
Outer contact resistance	≤ 2.5 m Ω
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	≤ 250 V rms, 50 Hz, at sea level
Contact current	1.5 A DC typ.
RF-leakage	≥ 55 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 10 N
Engagement force	≤ 63 N
Disengagement force	8 N min. to 63 N max.

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 1.7 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
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