



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

PCB layout B 30

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Brass
Brass
PA 6.6T

Plating

AuroDur®, gold plated
AuroDur®, gold plated

SMB RIGHT ANGLE PLUG
PCB**59S225-400L5****Electrical data**

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 25 dB, DC to 1 GHz ≥ 20 dB, 1 to 3 GHz ≥ 18 dB, 3 to 4 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ 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

- VSWR in application depends decisive on PCB layout -

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
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 2.36 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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