



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**

	Material	Plating
Center contact	Brass	AuroDur
Outer contact	Brass	AuroDur
Body	Brass	AuroDur
Dielectric	PTFE	

SMB RIGHT ANGLE PLUG  
PCB**59S212-400L5****Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 4 GHz
Return loss	$\geq 25$ dB, DC to 1 GHz $\geq 20$ dB, 1 to 3 GHz $\geq 18$ dB, 3 to 4 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 1 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 5$ m $\Omega$
Outer contact resistance	$\leq 2.5$ m $\Omega$
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	$\leq 250$ V rms, 50 Hz, at sea level
Contact current	1.5 A DC typ.
RF-leakage	$\geq 55$ dB up to 1 GHz

- Connector only, VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	$\geq 500$
Center contact captivation: axial	$\geq 10$ N
Engagement force	$\leq 63$ 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 2.1 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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