



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**

	<b>Material</b>	<b>Plating</b>
Center contact plug	Brass	AuroDur, gold plated
Center contact jack	Beryllium copper	AuroDur, gold plated
Outer contact plug	Brass	AuroDur, gold plated
Outer contact jack	Beryllium copper	AuroDur, gold plated
Body plug	Brass	Gold, min. 0.8 µm, over nickel
Body jack	Brass	Gold, 0.1 µm min.
Dielectric	PTFE	

SMB T-ADAPTOR  
PLUG – PLUG - JACK

**59S301-K00L5**

**Electrical data**

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

**Mechanical data**

Mating cycles  $\geq 500$   
 Center contact captivation: axial  $\geq 10 \text{ N}$   
 Engagement force  $\leq 63 \text{ N}$   
 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 3.1 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
Inge Mühlauer	14/12/04	Sa. Krautenbacher	20.03.14	d00	14-0352	T. Krojer	20.03.14
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2