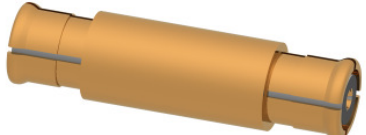


Product data sheet

IMS CONNECTOR SYSTEMS GmbH
 Obere Hauptstrasse 30
 D-79843 Löffingen
 Postfach 1141
 D-79840 Löffingen

Tel (+49) 7654 901-0
 Fax (+49) 7654 901-199
 Net: www.imscs.com
 E-mail: sales@imscs.com

Part Number: 4598.SMP.9910.003		Revision: c	
Description: SMP-SMP-Adapter (jack-jack)		Date: 19.12.2008	
		Signature: R.Schwär	
		Page: 1 of 2	
Design according to:		MIL-STD-348A	
Electrical characteristics		colored value means: still under test target value	
	Value	Unit	Picture
Impedance (MIL-C- 39012B)	50	[Ω]	
Operating frequency up to	...18	[GHz]	
Return loss			
1 GHz	31	[dB]	
2 GHz	30	[dB]	
4 GHz	30	[dB]	
6 GHz	27	[dB]	
10 GHz	25	[dB]	
18 GHz	21	[dB]	
3rd. Order PIM product 2x43dBm	/	[dBc]	
Insulation resistance	≥ 5	[G Ω]	
Contact resistance			
Centre contact	≤ 6	[m Ω]	
Outer contact	≤ 2	[m Ω]	
Contact current max. (DC)	max. 1,2	[A]	
Operating voltage	335	[V]	
Proof voltage	500	[V]	
Mechanical characteristics		Value	Unit
Engagement force	"smooth bore"	max. 9	[N]
	"limited detent"	max. 45	[N]
	"full detent"	max. 68	[N]
Separating force	"smooth bore"	min. 2,2	[N]
	"limited detent"	min. 9	[N]
	"full detent"	min. 22	[N]
Mating cycles	"smooth bore"	min. 1000	
	"limited detent"	min. 500	
	"full detent"	min. 100	

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<u>Material & plating</u>	RoHS (2002/95/EC) conform	
	General: No magnetic nickel allowed in any of the materials.	
	Material	Plating
Spring basket	copper beryllium	min. 0,5µm Cu + min. 2µm Ni-P + min. 0,2µm hard Au
Centre contact	copper beryllium	min. 0,5µm Cu + min. 2µm Ni-P + min. 0,2µm hard Au
Insulator	PTFE	-

<u>Environmental influences</u>		Remarks
Operating temperature range	-65°C up to +155°C	
Climatic sequence:	Standard	
1. Dry heat	IEC 60068-2-61	
2. Damp heat, cyclic, 1 cycle	IEC 60068-2-2-Ba	
3. Cold	IEC 60068-2-30-Db	
4. Damp heat, cyclic, 6 cycles	IEC 60068-2-1-Aa	
	IEC 60068-2-30-Db	

Notes

<u>Update historie</u>		
Rev.	date	Signature
a	19.03.2010	R.Schwär
b	10.05.2012	R.Schwär
c	18.09.2013	R.Schwär