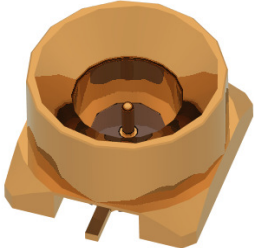


Product data sheet

IMS CONNECTOR SYSTEMS GmbH
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Part Number: 4603.SMP.1010.003		Revision: b	
Description: SMP-p.c.b. mount plug		Date: 04.02.2009	
		Signature: R.Schwär	
		Page: 1 of 2	
Design according to:	MIL-STD-348A "smooth bore"		
Electrical characteristics:	colored value means: still under test target value		Picture
	Value	Unit	
Impedance (MIL-C- 39012B)	50	[Ω]	
Operating frequency up to	...10	[GHz]	
Return loss measured with cable typ:		-	
1 GHz	35	[dB]	
2 GHz	33	[dB]	
4 GHz	29	[dB]	
6 GHz	22	[dB]	
10 GHz	18	[dB]	
12 GHz		[dB]	
3rd. Order PIM product 2x43dBm	/	[dBc]	
Insulation resistance	≥ 5	[GΩ]	at 910MHz / at 1870 MHz
Contact resistance			
Centre contact	≤ 6	[mΩ]	
Outer contact	≤ 2	[mΩ]	
Contact current max. (DC)	max. 1,2	[A]	
Operating voltage	335	[V]	
Proof voltage	500	[V]	
Mechanical characteristics:	Value	Unit	Remarks
Engagement force	max. 9	[N]	"smooth bore"
Separating force	min. 2,2	[N]	"smooth bore"
Mating cycles	min. 500		"smooth bore"

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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
Outer contact	Brass	min. 0,5µm Cu + min. 2µm Ni-P + min. 0,2µm hard Au
Centre contact	Brass	min. 0,5µm Cu + min. 2µm Ni-P + min. 0,2µm hard Au
Insulator	PEEK	-

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

Notes:

<u>Update historie</u>			
Rev.	Date	Alteration	Signature
a	12.02.2009	Revised	R.Schwär
b	22.03.2010	corr. Plating	R.Schwär