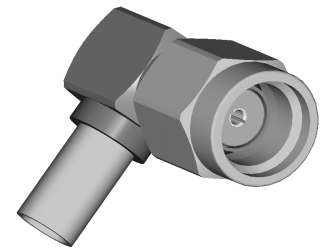


Product data sheet

IMS CONNECTOR SYSTEMS GmbH
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Part Number: 4024.42.2420.023 Description: SMA-Cable mount plug		Revision: c Date: 08.11.2005 Signature: U. Mayer Page: 1 of 2	
Design according to:		SMA Reverse Polarity	No IEC Standard
Electrical characteristics:		<small>colored value means: still under test target value</small>	
		Value	Unit
Impedance (MIL-C- 39012B) Operating frequency up to		50 6	[Ω] [GHz]
Return loss measured with cable typ:		RG 174	-
1 GHz		36	[dB]
2 GHz		32	[dB]
4 GHz		21	[dB]
6 GHz		17	[dB]
10 GHz		-	[dB]
18 GHz		-	[dB]
3rd. Order PIM product 2x43dBm		/	[dBc]
Insulation resistance		5	[GΩ]
Contact resistance			
Centre contact		3,0	[mΩ]
Outer contact		2,0	[mΩ]
Contact current max. (DC)		2,0	[A]
Operating voltage		500	[V]
Proof voltage		1000	[V]
Mechanical characteristics:		Value	Unit
Engagement force		-	[N]
Separating force		-	[N]
Mating cycles		> 500	
Coupling nut retention force		> 270	[N]
Coupling nut torque		0,45	[Nm]
			recommended



Remarks

at 910MHz / at 1870 MHz

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<u>Material & plating:</u>	RoHS (2002/95/EC) conform	
	Material	Plating
Housing / Nut	Brass	Ni-P + 0,15µm Au
Centre contact	Copper beryllium	Ni-P + 0,15µm Au
Spring ring	Stainless steel	-
Crimp ferrule	Copper	Ni + 0,2µm Au
Insulator	PTFE	-
Gasket	Silikon	-

<u>Environmental influences:</u>		Remarks
Operating temperature range	-55°C up to +125°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	09.11.2005	-	uma
b	16.02.2006	-	uma
c	25.06.2008	new design	uma

Formblatt-Nr.: Form-TK-012b	
Rev.	01
Released	17. Aug 07