Product data sheet

IMS CONNECTOR SYSTEMS GmbH
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Part Number: 087.42.1810.071

Description: SMA-Cable mount plug

Revision: -
Date: 19.05.2011
Signature: Pölz N.

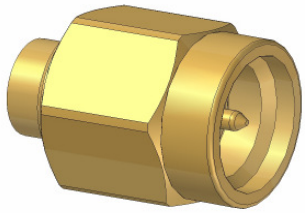
Design according to: IEC 169-15 (Type SMA)

Electrical characteristics:

colored value means: still under test target value

	Value	Unit
Impedance (MIL-C- 39012B)	50	[Ω]
Operating frequency up to	18	[GHz]
Return loss measured with cable typ:	UT 141	-
1 GHz	40	[dB]
2 GHz	40	[dB]
4 GHz	33	[dB]
6 GHz	27	[dB]
10 GHz	19	[dB]
18 GHz	15	[dB]
3rd. Order PIM product 2x43dBm	/	[dBc]
Insulation resistance	≥10	[GΩ]
Contact resistance		
Centre contact	≤ 3	[mΩ]
Outer contact	≤ 2	[mΩ]
Contact current max. (DC)	2	[A]
Operating voltage	<500	[V]
Proof voltage	1000	[V]

Picture



Remarks

at 910MHz / at 1870 MHz

Mechanical characteristics:

	Value	Unit
Recommended torque coupling nut	0,45	[Nm]
Retention force coupling nut	>270	[N]
Mating cycles	> 500	

Remarks

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Page: 2 of 2

Material & plating:

	RoHS (2002/95/EC) conform	
	Material	Plating
Housing	**Brass**	**Cu + Ni + 0,2µm Au**
Centre contact	**Brass**	**Cu + Ni + 1,3µm Au**
Coupling nut	**Brass**	**Cu + Ni + 0,2µm Au**
Spring ring	**Stainless steel**	**-**
Insulator	**PTFE**	**-**
Gasket	**Silikon rubber**	**-**

Environmental influences:

Operating temperature range	-55°C up to +125°C	
	Standard	Remarks
Climatic sequence:	IEC 60068-2-61	
1. Dry heat	IEC 60068-2-2-Ba	
2. Damp heat, cyclic, 1 cycle	IEC 60068-2-30-Db	
3. Cold	IEC 60068-2-1-Aa	
4. Damp heat, cyclic, 6 cycles	IEC 60068-2-30-Db	
Solder profile:	-	

Notes:

Update historie

Rev.	Date	Alteration	Signature

Formblatt-Nr.: Form-TK-012b