




Product data sheet

IMS CONNECTOR SYSTEMS GmbH
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Part Number: 4583.SMPL.1010.003 Description: p.c.b. mount plug		Revision: d Date: 02.02.2009 Signature: R.Schwär Page: 1 of 2																																																												
Design according to:		Long-wipe SMP Spec. 17S000-000																																																												
Electrical characteristics		<div style="background-color: #e0ffe0; padding: 2px; font-size: small;">colored value means: still under test target value</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">Value</th> <th style="width: 15%;">Unit</th> <th style="width: 10%;">Picture</th> </tr> </thead> <tbody> <tr> <td>Impedance (MIL-C- 39012B)</td> <td style="text-align: center;">50</td> <td style="text-align: center;">[Ω]</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">  </td> </tr> <tr> <td>Operating frequency up to</td> <td style="text-align: center;">....10</td> <td style="text-align: center;">[GHz]</td> </tr> <tr> <td>Return loss</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">1 GHz</td> <td style="text-align: center;">26</td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td style="padding-left: 20px;">2 GHz</td> <td style="text-align: center;">25</td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td style="padding-left: 20px;">4 GHz</td> <td style="text-align: center;">22</td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td style="padding-left: 20px;">6 GHz</td> <td style="text-align: center;">20</td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td style="padding-left: 20px;">10 GHz</td> <td style="text-align: center;">14</td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td style="padding-left: 20px;">18 GHz</td> <td></td> <td style="text-align: center;">[dB]</td> </tr> <tr> <td>3rd. Order PIM product 2x43dBm</td> <td style="text-align: center;">/</td> <td style="text-align: center;">[dBc]</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> Remarks at 910MHz / at 1870 MHz </td> </tr> <tr> <td>Insulation resistance</td> <td style="text-align: center;">≥ 5</td> <td style="text-align: center;">[GΩ]</td> </tr> <tr> <td>Contact resistance</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Centre contact</td> <td style="text-align: center;">≤ 6</td> <td style="text-align: center;">[mΩ]</td> </tr> <tr> <td style="padding-left: 20px;">Outer contact</td> <td style="text-align: center;">≤ 2</td> <td style="text-align: center;">[mΩ]</td> </tr> <tr> <td>Contact current max. (DC)</td> <td style="text-align: center;">max. 1,2</td> <td style="text-align: center;">[A]</td> </tr> <tr> <td>Operating voltage</td> <td style="text-align: center;">335</td> <td style="text-align: center;">[V]</td> <td></td> </tr> <tr> <td>Proof voltage</td> <td style="text-align: center;">500</td> <td style="text-align: center;">[V]</td> <td></td> </tr> </tbody> </table>			Value	Unit	Picture	Impedance (MIL-C- 39012B)	50	[Ω]		Operating frequency up to10	[GHz]	Return loss			1 GHz	26	[dB]	2 GHz	25	[dB]	4 GHz	22	[dB]	6 GHz	20	[dB]	10 GHz	14	[dB]	18 GHz		[dB]	3rd. Order PIM product 2x43dBm	/	[dBc]	Remarks at 910MHz / at 1870 MHz	Insulation resistance	≥ 5	[GΩ]	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]	
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<u>Material & plating</u>	General: No magnetic material in any of the metallic parts.	
	Material	Plating
Housing	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>	Standard	Remarks
	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

Notes

<u>Update historie</u>		
Rev.	date	Signature
a	02.02.2009	R.Schwär
b	29.09.2009	R.Schwär
c	17.11.2009	R.Schwär
d	29.10.2012	R.Schwär