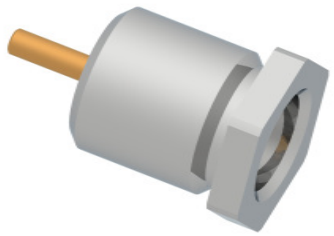


# Product data sheet

IMS CONNECTOR SYSTEMS GmbH  
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<b>Part Number: 5039.PSMP.1014.193</b>		<b>Revision: a</b>		
<b>Description: Bulkhead plug</b>		<b>Date: 15.10.2012</b>		
		<b>Signature: T.Stiesch</b>		
		<b>Page: 1 of 2</b>		
<b>Design according to:</b>		<b>PSMP-Standard</b>		
<b>Electrical characteristics</b>		<div style="background-color: #90EE90; padding: 2px; font-size: 8px;">colored value means: still under test target value</div>		
	Value	Unit	Picture	
Impedance ( MIL-C- 39012B)	<b>50</b>	[Ω]		
Operating frequency up to	<b>18</b>	[GHz]		
Return loss				
1 GHz	<b>37</b>	[dB]		
2 GHz	<b>36</b>	[dB]		
4 GHz	<b>35</b>	[dB]		
6 GHz	<b>32</b>	[dB]		
10 GHz	<b>25</b>	[dB]		
Insertion loss	$<0,03 \times \sqrt{f \text{ (GHz)}}$	[dB]		
Insulation resistance	<b>5</b>	[GΩ]		
Contact resistance			Remarks	
Centre contact	<b>3,0</b>	[mΩ]	@2.2 GHz  (2x43 dBm)	
Outer contact	<b>2,0</b>	[mΩ]		
Power handling	<b>≤ 200</b>	[W]		
Operating voltage	<b>480</b>	[V]		
Proof voltage	<b>1000</b>	[V]		
PIM	<b>≥ 160</b>	dBc		
<b>Mechanical characteristics</b>		Value		Unit
Engagement force	<b>45</b>	[N]		Remarks
Separating force	<b>15</b>	[N]		
Mating cycles	<b>≥ 100</b>			
Center contact captivation	<b>≥ 7</b>	[N]		
Tightening Torque	<b>130</b>	[Ncm]		

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<b>Part Number: 5039.PSMP.1014.193</b>	Revision: <b>a</b>
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	Page: 2 of 2

<u>Material &amp; plating</u>	Material	Plating
Housing	<b>brass</b>	<b>3-5µm Ag + flash CuZnSn</b>
Centre contact	<b>brass</b>	<b>Ni-P + 0,15µm Au</b>
Other metal parts	-	-
Insulator	<b>PTFE</b>	-
Gasket	-	-
	-	-

<u>Environmental influences</u>		Remarks
Operating temperature range	-65°C to +165°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	

Notes

<u>Update historie</u>			
Rev.	date	Alteration	Signature
a	23.01.2013	Revised	T.Stiesch