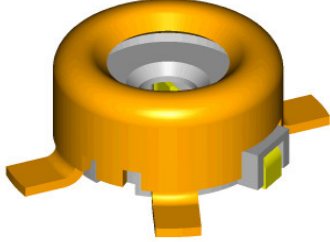


Product data sheet

IMS CONNECTOR SYSTEMS GmbH
 Obere Hauptstrasse 30
 D-79843 Löffingen
 Postfach 1141
 D-79840 Löffingen

Tel (+49) 7654 901-0
 Fax (+49) 7654 901-199
 Net: www.imscs.com
 E-mail: sales@imscs.com

Part Number: 3926.99.0030.00'			Revision: pre-5		
Description: SMT-Switch			Date: 30.06.2006		
			Signature: TZ		
			Page: 1 of 4		
<u>ELECTRICAL CHARACTERISTICS</u>		colored value means: still under test target value		Unit	Picture
		value			
Impedance (MIL-C-39012B)		50		[Ohm]	
Counter part:		3989.91.1420.01'			
Operation frequency		6		[GHz]	
		unswitched	switched		
Return loss	1GHz	> 30	> 30	[dB]	
	2GHz	> 28	> 24	[dB]	
	3GHz	> 27	> 21	[dB]	
	6GHz	> 16	> 16	[dB]	
Insertion loss	1GHz	< 0,15	< 0,20	[dB]	
	2GHz	< 0,20	< 0,30	[dB]	
	3GHz	< 0,25	< 0,40	[dB]	
	6GHz	< 0,50	< 1,0	[dB]	
Isolation:	1GHz	n/a	> 36	[dB]	
	2GHz	n/a	> 30	[dB]	
	3GHz	n/a	> 26	[dB]	
	6GHz	n/a	> 19	[dB]	
Contact resistance	Center contact	< 80	< 80	[mOhm]	
	Outer contact	< 50	< 50	[mOhm]	
Insulation resistance - initial > 0,50 Gohm		> 0,20		[Mohm]	after SMT-process / conditioning
Operation voltage		50		[V]	
Proof voltage		100		[V]	
<u>MECHANICAL CHARACTERISTICS</u>		Value		Unit	Remarks
Engagement force		(approx. 10)		[N]	
Seperating force		(approx. 10)		[N]	
Maiting cycles		50		-	

Remarks
 Attention: electrical values strongly depending on layout !
 Reference-pcb: AGK-4001

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 Page: 3 of 4

SMD - solderability acc. IPC/JEDEC J-STD-020C - Pb-Free Assembly

Table 4-1 SnPb Eutectic Process – Package Peak Reflow Temperatures

Package Thickness	Volume mm ³ <350	Volume mm ³ ≥ 350
<2.5 mm	240 +0/-5 °C	225 +0/-5 °C
≥ 2.5 mm	225 +0/-5 °C	225 +0/-5 °C

Table 4-2 Pb-free Process – Package Classification Reflow Temperatures

Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
<1.6 mm	260 +0 °C *	260 +0 °C *	260 +0 °C *
1.6 mm - 2.5 mm	260 +0 °C *	250 +0 °C *	245 +0 °C *
≥2.5 mm	250 +0 °C *	245 +0 °C *	245 +0 °C *

* Tolerance: The device manufacturer/supplier shall assure process compatibility up to and including the stated classification temperature (this means Peak reflow temperature +0 °C. For example 260 °C+0°C) at the rated MSL level.

Table 5-2 Classification Reflow Profiles

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Average Ramp-Up Rate (T _{Smax} to T _p)	3 °C/second max.	3° C/second max.
Preheat - Temperature Min (T _{Smin}) - Temperature Max (T _{Smax}) - Time (t _{Smin} to t _{Smax})	100 °C 150 °C 60-120 seconds	150 °C 200 °C 60-180 seconds
Time maintained above: - Temperature (T _L) - Time (t _L)	183 °C 60-150 seconds	217 °C 60-150 seconds
Peak/Classification Temperature (T _p)	See Table 4.1	See Table 4.2
Time within 5 °C of actual Peak Temperature (t _p)	10-30 seconds	20-40 seconds
Ramp-Down Rate	6 °C/second max.	6 °C/second max.
Time 25 °C to Peak Temperature	6 minutes max.	8 minutes max.

Note 1: All temperatures refer to topside of the package, measured on the package body surface.

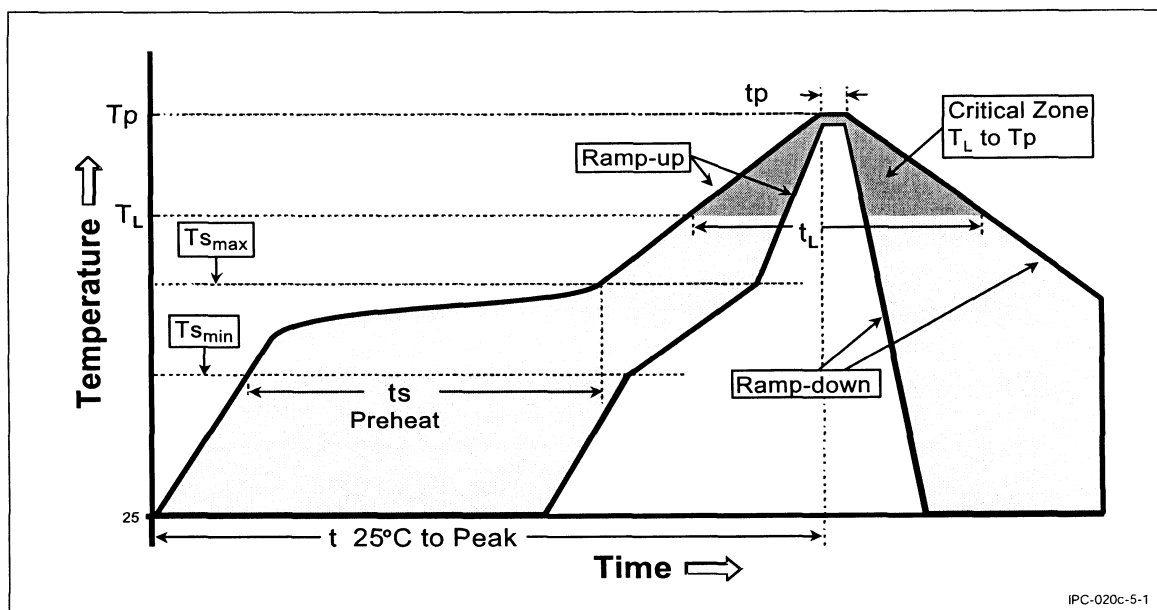


Figure 5-1 Classification Reflow Profile

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IMS CONNECTOR SYSTEMS GmbH
 Obere Hauptstrasse 30
 D-79843 Löffingen
 Postfach 1141
 D-79840 Löffingen

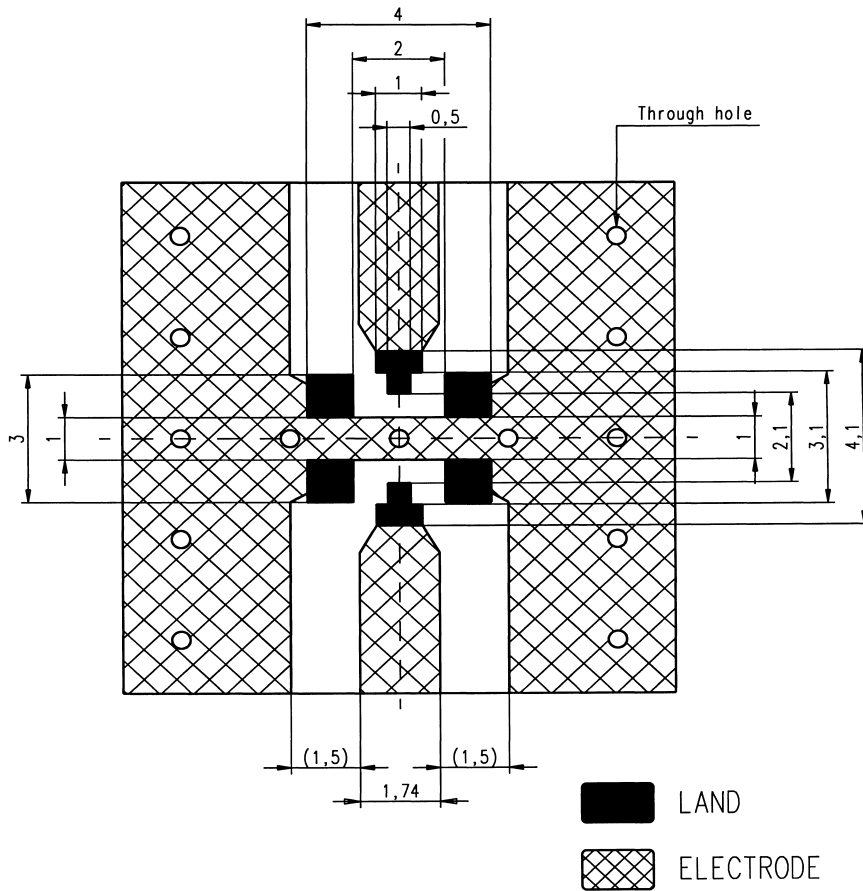
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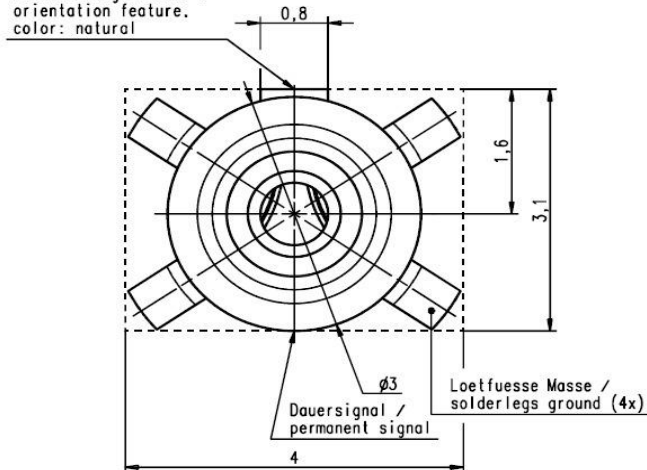
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PCB-Layout



Signaldurchgangspfad /
 switched signal

Orientierungsmerkmal /
 orientation feature.
 color: natural



The standard solder cream metal mask drawing (Mask thickness 0,15 mm)

