IPC ASSOCIATION CON ELECTRONICS IND	Material Compo © Copyright 2005. IF international and Pan	PC, Bannockb	ourn, Illinois. A	all rights reserved un						within the manufacturer level materials for when					
752-21.1		IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Type of Distribute					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier In	formation														
Company name*			Company un	Company unique ID			Unique ID Authority					Response Date*			
nsemi											2025-07-06				
ontact Name	•		Title - Contact			Pho	Phone - Contact*				Email - Contact*				
Product-Env-	Stewards		Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
uthorized Re	epresentative*		Title - Representative			Pho	Phone - Representative*			Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
Red	equester Item Number	Tumber Mfr Item Num		Number Mfr Item Name			fective Dat	te Version	1	Manufacturing Site		Weight*	UOM	Unit Type	
				R OPEN; Three phase asor method (open loo		25-07-06		РНМ			200.0	mg	Each		
Ianufactur	ring Proccess Informat	ion													
Terr	Terminal Plating / Grid Array Material Te		erminal Base Alloy J-ST		STD-020 MSL Rating	3	Peak Pro	ocess Body Temperature Max Time at Peak		Tempera	ture Numb	er of Reflow Cy	cles		
contains Bi			CU Alloy 3				260 C 30		30	secor	nds 3				
omments															
TTENTION:	: MSL 3 Rated item requires	Bake and D	ry Pack (after	r electrical test)											
or more infor	rmation regarding material o	composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the						

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	5.09	mg	Supplier	Silicon (Si)	7440-21-3		5.0712	mg
			Supplier	Polyimide	Proprietary Data		0.0188	mg
Die Attach	1.04	mg	Supplier	Silver (Ag)	7440-22-4		0.7076	mg
			Supplier	Epoxy resins	129915-35-1		0.3008	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0227	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0089	mg
Lead Frame	59.75	mg	Supplier	Zinc (Zn)	7440-66-6		0.0777	mg
			Supplier	Iron (Fe)	7439-89-6		1.4041	mg
			Supplier	Copper (Cu)	7440-50-8		58.2204	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0478	mg
Mold Compound-Black	131.66	mg		Phenolic Resin	proprietary data		6.583	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		3.6865	mg
			Supplier	Carbon Black (C)	1333-86-4		1.3166	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		3.9498	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		105.328	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		10.5328	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2633	mg
Plating	2.13	mg	В	Bismuth (Bi)	7440-69-9		0.0128	mg
			Supplier	Tin (Sn)	7440-31-5		2.1172	mg
Wire Bond - Cu	0.33	mg	Supplier	Copper (Cu)	7440-50-8		0.33	mg