IPC  ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
752-21.1		IPC Web Site for Information on IPC-1752 Standard  http://www.ipc.org/IPC-175x  Form Typ Distribute				*	Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater					ials and Mfe Information			
upplier I	nformation														
Company name*			Company unique ID			Ţ	Unique ID Authority					Response Date*			
nsemi											2024-04-11				
Contact Nam	ne	Title - Contact			1	Phone - Contact*				Email - Contact*					
Product-Env	v-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized R	Representative*		Title - Representative			I	Phone - Representative*			Email - Representative*					
Product-Env	v-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
R	Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	n ]	Manufacturing Site	1	Weight*	UOM	Unit Type	
		MM3Z3V9T1G SOD-323 COPPER		PB FREE		2024-04-11		CN1		4	1.51	mg	Each		
	uring Process Inform				OED 000 Mai	D.:	D 1 D	D 1	T	14 Ti . D. I	<b>T</b>			,	
ž ž			•		STD-020 MSL	_ Rating	Peak Process Body Tempe						per of Reflow Cyc	cles	
•	(atte Tin (Sn) - annealed	[(	CU Alloy	1			260		IC	30	secon	ds   3			
omments															
	imum time at peak tempera														
or more info	ormation regarding materia	al composition	please refer t	o 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 knowledges 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 information provided 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 paragraph. If the Company and the Supplier 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 have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard											
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	0.49	mg	Supplier	Silicon (Si)	7440-21-3		0.49	mg
Lead Frame	0.86	mg	В	Nickel (Ni)	7440-02-0		0.3122	mg
			Supplier	Iron (Fe)	7439-89-6		0.4317	mg
			Supplier	Copper (Cu)	7440-50-8		0.1161	mg
Mold Compound-Black	3.02		Supplier	Boron zinc hydroxide oxide	138265-88-0		0.0906	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0151	mg
			Supplier	2,4,6-triamino-s-triazincompd.withs-triazine-triol	37640-57-6		0.0906	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.416	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0302	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.2416	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1359	mg
Plating	0.13	mg	Supplier	Tin (Sn)	7440-31-5		0.13	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg