ASSOCIATION CONNECTION ELECTRONICS INDUSTRI	© Copyright 2005. II	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 Form Typ http://www.ipc.org/IPC-175x Distribute				*	Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater					ials and Mfg Information			
upplier Infori	nation								·						
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
nsemi											2024-04-28				
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-Stew	ards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
uthorized Repres	entative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
Requester Item Number		Mfr Item Number		Mfr Item Name			Effective Date	Version	Version Manufacturing Site		V	/eight*	UOM	Unit Type	
		MM5Z47VT5G SOD-523 EUT SN		SOD-523 EUT SNO	GL PB FREE		2024-04-28 CN1		CN1	1	.734	mg	Each		
	Process Informat		. 15		CEE 020 MGI	D. d		D 1 5	n.			- I	an a	,	
		,		STD-020 MSL	. Rating		cess Body Temperature   Max Time at Peak				per of Reflow Cyc	eles			
•	in (Sn) - annealed	C	U Alloy	1			260		C	30	second	s  3			
omments															
	time at peak temperatu														
or more informat	ion regarding material	composition <b>j</b>	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 part of the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itability 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 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 recruired 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	0.04	mg	Supplier	Silicon (Si)	7440-21-3		0.04	mg
Lead Frame	0.58		В	Nickel (Ni)	7440-02-0		0.221	mg
			Supplier	Iron (Fe)	7439-89-6		0.3051	mg
			Supplier	Copper (Cu)	7440-50-8		0.0539	mg
Mold Compound-Black	1.08		Supplier	Boron zinc hydroxide oxide	138265-88-0		0.0324	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0054	mg
			Supplier	2,4,6-triamino-s-triazincompd.withs-triazine-triol	37640-57-6		0.0324	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.864	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0108	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.0864	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0486	mg
Plating	0.03	mg	Supplier	Tin (Sn)	7440-31-5		0.03	mg
Wire Bond - Cu	0.004	mg	Supplier	Copper (Cu)	7440-50-8		0.004	mg