IPC ASSOCIATION ELECTRONIC	© Copyright 200	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bo international and Pan-American copyright conventions.			nder both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe 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 Type http://www.ipc.org/IPC-175x Distribute				Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					Materials and	Mfg Informat	ion		
Supplie	r Information														
Company name* Company unique ID				nique ID	Unique ID A			ID Authority R			Resp	Response Date*			
nsemi											2023-	2023-06-08			
Contact N	Name		Title - Contact			F	Phone - Contact*				Emai	Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance			]	NA				Prod	Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*	Title - Representative			F	Phone - Representative*				Emai	Email - Representative*				
Product-l	Env-Stewards	Product Enviro Compliance			]	NA				Prod	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	e Date Version Manufacturing Sit		ite	Weight*	UOM	Unit Type		
		NSI45020JZT1G SOT223 EU		SOT223 EUTECT	TECTIC 20MA		2023-06-08 MY1		71 109		109.99	mg	Each		
Ianufa	acturing Process Inform												·	·	
	8		,		-STD-020 MSL	Rating			Τ .	ure Max Time at Peak Temperate		erature Numb	per of Reflow Cyo	cles	
	Matte Tin (Sn) - annealed		CU Alloy	1			260		C	30	sec	conds 3			
omments															
<u>vel 1 - m</u>	naximum time at peak temper	rature during so	ldering is 10	30 seconds											
or more	information regarding mater	ial 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 (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (100 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 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 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 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 Terms and Conditions of Sale appl											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	cceptance *	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	3.3	mg	Supplier	Silicon (Si)	7440-21-3		3.3	mg
Lead Frame	39.54		Supplier	Silver (Ag)	7440-22-4		0.514	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0395	mg
			Supplier	Iron (Fe)	7439-89-6		0.949	mg
			Supplier	Copper (Cu)	7440-50-8		38.0375	mg
Mold Compound-Black	59.7		Supplier	Ortho Cresol Novolac Resin	29690-82-2		5.97	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2985	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		8.6565	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		38.805	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		5.97	mg
Plating	7.44	mg	Supplier	Tin (Sn)	7440-31-5		7.44	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg