IPC ASSOCIATION ELECTRONICS	© Copyright 2005. 1	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder both le	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 Ty http://www.ipc.org/IPC-175x Distribut				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					Materials an	ials and Mfg Information			
upplier	Information				·										
Company name*			Company unique ID			τ	Unique ID Authority				Resi	Response Date*			
nsemi											2023	2023-06-08			
Contact Na	nme	Title - Contact			P	Phone - Contact*				Ema	Email - Contact*				
Product-E	nv-Stewards		Product Enviro Compliance			I	NA				Pro	Product-Env-Stewards@onsemi.com			
uthorized	Representative*	Title - Representative			P	Phone - Representative*				Ema	Email - Representative*				
Product-E	nv-Stewards	Product Enviro Compliance			1	NA				Pro	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective Date Version Manufacturing		Site	Weight*	UOM	Unit Type			
		SZMMBZ16VTALT1 Zener SOT23 2% V G Common Anode Ze				2023-06-08	CN1			8.02	mg	Each			
Ianufac	turing Proccess Informa	tion													
-	Terminal Plating / Grid Array M	Terminal Base Alloy J-STD-020 M		-STD-020 MSL F	Rating	Peak Process Body Temperature Max Time at P			t Peak Temp	ak Temperature Number of Reflow Cycles					
I	Matte Tin (Sn) - annealed		CU Alloy 1				260	260 C 30		se	seconds 3				
omments															
vel 1 - ma	ximum time at peak temperat	ure during so	ldering is 10-3	0 seconds											
or more in	nformation regarding material	composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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 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 not independently verified 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 liability and the Company's remedies for issues that arise regarding information the Supplier p											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	nogeneous Material Weight Unit of M		Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.05 mg		Supplier	Silicon (Si)	7440-21-3		0.05	mg
Lead Frame	2.92		В	Nickel (Ni)	7440-02-0		1.06	mg
			Supplier	Iron (Fe)	7439-89-6		1.4658	mg
			Supplier	Copper (Cu)	7440-50-8		0.3942	mg
Mold Compound-Black	4.9		Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.49	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0245	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.7105	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3.185	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.49	mg
Plating	0.14	mg	Supplier	Tin (Sn)	7440-31-5		0.14	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg