IPC ASSOCIATION OF ELECTRONICS	© 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 Form Typ http://www.ipc.org/IPC-175x Distribute				*	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier l	Information														
Company name*			Company ur	Company unique ID			Unique ID Authority				Response Date*				
nsemi											2023-06-06				
Contact Nar	me		Title - Contact			I	Phone - Contact*				Email - Contact*				
?roduct-En	nv-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized	Representative*	Title - Representative			I	Phone - Representative*			Email - Representative*						
Product-En	nv-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
I	Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	N	Manufacturing Site		Veight*	UOM	Unit Type	
		1SV249-TL-E PIN Di SERIE:		PIN Di SERIES rs 4	4.5 ohm	hm 2023-06-06			C	CNG		.29	mg	Each	
	turing Proccess Inform		erminal Base	Alloy	STD-020 MS	I. Pating	Pank Proce	see Rody Te	mparatur	e Max Time at Peak	Tamparatu	ira Numb	per of Reflow Cyc	Jac	
2		CU Alloy 1		31D-020 MS	L Kating	Peak Process Body Te 260		C	30		seconds 3		les		
omments	viitains Di		Anoy	1			200		10	130	Second	io J			
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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 (DBP), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).											
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 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	0.08	mg	Supplier	Silicon (Si)	7440-21-3		0.08	mg
Lead Frame	2.67		Supplier	Silver (Ag)	7440-22-4		0.0697	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0051	mg
			Supplier	Iron (Fe)	7439-89-6		0.0676	mg
			Supplier	Copper (Cu)	7440-50-8		2.524	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0037	mg
Mold Compound-Black	3.37			Brominated epoxy resin	proprietary data		0.0842	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.0708	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.0404	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0337	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2.359	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.7751	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0067	mg
Plating	0.15	mg	В	Bismuth (Bi)	7440-69-9		0.0009	mg
			Supplier	Tin (Sn)	7440-31-5		0.1491	mg
Wire Bond - Au	0.02	mg	Supplier	Gold (Au)	7440-57-5		0.02	mg