IPC ASSOCIATION CONNI ELECTRONICS INDUS	© 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 Materi					als and Mf	g Informati	on		
upplier Info	formation	,							,						
Company name*			Company ur	Company unique ID			Unique ID Authority					Response Date*			
nsemi											2023-06-08				
Contact Name			Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-St	Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Rep	presentative*	Title - Representative			I	Phone - Representative*			Email - Representative*						
Product-Env-St	Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requ	uester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	N	Manufacturing Site		Veight*	UOM	Unit Type	
	NCV330MUTBG Load switch 3Amp.		s Automotive		2023-06-08	5-08 MY1		4	.5706	mg	Each				
	ing Process Informa						I					l			
		,		STD-020 MSI	_ Rating	Peak Process Body Tempera						er of Reflow Cyc	eles		
SnAg	gCu	C	CU Alloy	1			260		C	30	secono	ls 3			
omments															
	um time at peak temperat														
or more inform	mation regarding materia	l 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).											
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the company	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the this and/or remedies provided as part of						
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	0.1918	mg	Supplier	Silicon (Si)	7440-21-3		0.1918	mg
Die Attach	0.1044	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.0334	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.071	mg
Lead Frame	2.5421	mg	Supplier	Silver (Ag)	7440-22-4		0.0541	mg
			Supplier	Tin (Sn)	7440-31-5		0.0064	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0056	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0064	mg
			Supplier	Copper (Cu)	7440-50-8		2.4697	mg
Mold Compound-Black	1.3089	mg		Epoxy resin	proprietary data		0.0916	mg
			Supplier	Phenolic Resin	Proprietary Data		0.0916	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.1963	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0065	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.9228	mg
Plating	0.2263	mg	Supplier	Silver (Ag)	7440-22-4		0.0068	mg
			Supplier	Tin (Sn)	7440-31-5		0.2184	mg
			Supplier	Copper (Cu)	7440-50-8		0.0011	mg
Wire Bond - Au	0.1971	mg	Supplier	Gold (Au)	7440-57-5		0.1971	mg