IPC ASSOCIATION CON ELECTRONICS IND	© 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 Mfc Information				
Supplier In	formation														
Company name*			Company unique ID			J	Unique ID Authority				Response Date*				
nsemi											2023-06-08				
Contact Name	2	Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-	-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
uthorized Re	epresentative*	Title - Representative			I	Phone - Representative*			Email - Representative*						
Product-Env-	-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Re	Requester Item Number Mf		Mfr Item Number Mfr Item Name				Effective Date	Version	N	Anufacturing Site	1	Weight*	UOM	Unit Type	
		NCV451AMNWTBG 3A Ultra-SmallLo		3A Ultra-SmallLoad	dSwitch		2023-06-08 MY1		ЛҮ1	(0.0113	mg	Each		
Ianufactu i	ring Proccess Informa	ation												·	
Ten	Terminal Plating / Grid Array Material Term			erminal Base Alloy J-STD-020 MSL Rating			Peak Process Body Temperature Max Time at Peak				Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU A			CU Alloy	1			260		C	30	secon	ds 3			
omments															
vel 1 - maxin	num time at peak temperat	ture during sol	dering is 10-3	0 seconds											
or more info	rmation regarding materia	l 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 knowledges 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 shall apply the 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 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	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	5.0E-4	mg	Supplier	Silicon (Si)	7440-21-3		0.0005	mg
Die Attach Tape	2.0E-4	mg	Supplier	Formaldehyde, polymer with amiline	67784-74-1		0	mg
			Supplier	Amines, C36-alkylenedi-, polymers with 5,5'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[1,3-isobenzofurandione], maleated	1224691-98-8		0	mg
			Supplier	Bisphenol A, epichlorohydrin polymer	68610-41-3		0	mg
			Supplier	Silver (Ag)	7440-22-4		0.0002	mg
Lead Frame	0.007	mg	Supplier	Silver (Ag)	7440-22-4		0.0002	mg
			Supplier	Zinc (Zn)	7440-66-6		0	mg
			Supplier	Iron (Fe)	7439-89-6		0.0002	mg
			Supplier	Copper (Cu)	7440-50-8		0.0066	mg
			Supplier	Phosphorus (P)	7723-14-0		0	mg
Mold Compound-Black	0.0028	mg		Epoxy resin	proprietary data		0.0001	mg
			Supplier	Phenolic Resin	Proprietary Data		0.0001	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0001	mg
			Supplier	Carbon Black (C)	1333-86-4		0	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0001	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.0024	mg
Plating	6.0E-4	mg	Supplier	Tin (Sn)	7440-31-5		0.0006	mg
Wire Bond - Au	2.0E-4	mg	Supplier	Gold (Au)	7440-57-5		0.0002	mg