IPC ASSOCIATION CONNICELECTRONICS INDUST	Material Compo © Copyright 2005. IPO international and Pan-	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				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 Typ http://www.ipc.org/IPC-175x Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information			
upplier Info	ormation														
Company name* Company unique I			ue ID Unique ID A			Unique ID Auth	iD Authority Re			Respons	Response Date*				
nsemi										2023-06-08					
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-St	tewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com					
uthorized Rep	presentative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-St	tewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
Requ	Requester Item Number Mfr Iter		m Number Mfr Item Name				Effective Date Version N		Manufacturing Site W		Weight*	UOM	Unit Type		
		NCV97311MW50AR2 Automotive Swite		cher		2023-06-08 PHG		PHG	7	73.89	mg	Each			
Ianufacturi	ing Proccess Informati	on													
Terminal Plating / Grid Array Material Ter			Perminal Base Alloy J-STD-020 MS		SL Rating	Peak Process Body Temperature Max Time at Pea		Temperat	ure Numb	er of Reflow Cyc	les				
Matte Tin (Sn) - annealed		CU Alloy 3		3		260		С	30	secon	ds 3				
omments															
TTENTION: 1	MSL 3 Rated item requires	Bake and D	ry Pack (after	electrical test)						·				·	
or more inforn	mation regarding material c	omposition	please refer to	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).											
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 is true and correction this form using appropriate methods to ensure its accuracy and that such information is true and correction 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 has not or written agreement with respect to the identified 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 Supp											
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 recurined 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	5.25	mg	Supplier	Silicon (Si)	7440-21-3		5.25	mg
Die Attach	0.26	mg	Supplier	Silver (Ag)	7440-22-4		0.195	mg
			Supplier	Epoxy resins	129915-35-1		0.065	mg
Lead Frame	30.4	mg	Supplier	Silver (Ag)	7440-22-4		1.6416	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0365	mg
			Supplier	Iron (Fe)	7439-89-6		0.7144	mg
			Supplier	Copper (Cu)	7440-50-8		27.9984	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0091	mg
Mold Compound-Black	34.66	mg		Epoxy resin	proprietary data		1.629	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.466	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0347	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		27.9013	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.629	mg
Plating	3.09	mg	Supplier	Tin (Sn)	7440-31-5		3.09	mg
Wire Bond - Au	0.23	mg	Supplier	Gold (Au)	7440-57-5		0.23	mg