IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under be international and Pan-American copyright conventions.			nder both	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					Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
Supplie	r Information														
Company name*			Company unique ID			Ţ	Unique ID Authority					Response Date*			
nsemi											2023-06-08				
Contact N	Name	Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-l	Env-Stewards	Product Enviro Compliance			]	NA				Product-Env-Stewards@onsemi.com					
uthorize	ed Representative*	Title - Representative			F	Phone - Representative*				Email - Representative*					
Product-	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	ffective Date   Version   Manufacturing S		ring Site	1	Weight*	UOM	Unit Type	
		HCPL2531S		8PB 1MB 2-CH SMD			2023-06-08 THH			542.964		mg	Each		
Ianufa	acturing Process Inform														
	· ·		,		-STD-020 MSL	Rating	1		<del></del>	ture Max Time at Peak Temper		Temperat	ure Numb	er of Reflow Cyc	eles
Matte Tin (Sn) - annealed			U Alloy 1			<b>225</b>   C		30 seco		secon	ds 3				
omments															
vel 1 - m	naximum time at peak tempera	ture during so	ldering is 10-3	30 seconds											
or more	information regarding materia	al composition	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 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 part and the supplier may not have independently verified such information. However, in situations where 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 writte											
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	
Coupling Gel	64.0	mg	Supplier	3-Methacryloxypropyltrimethoxysilane (C10H20O5Si)	2530-85-0		64	mg	
Die	0.099	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.033	mg	
			Supplier	Silicon (Si)	7440-21-3		0.066	mg	
Die Attach	0.25	mg	Supplier	Silver (Ag)	7440-22-4		0.2075	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0425	mg	
Lead Frame	115.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.138	mg	
			Supplier	Iron (Fe)	7439-89-6		2.7125	mg	
			Supplier	Copper (Cu)	7440-50-8		112.125	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.0245	mg	
Mold Compound-Black	93.303	mg	Supplier	Brominated Epoxy Resin-2	68541-56-0		2.3325	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		13.995	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.866	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.4695	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		65.31	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.33	mg	
Mold Compound-White	258.662	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		52.4	mg	
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		1.3	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		196.662	mg	
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.6	mg	
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		2.7	mg	
Plating	11.6	mg	Supplier	Tin (Sn)	7440-31-5		11.6	mg	
Wire Bond - Au	0.05	mg	Supplier	Gold (Au)	7440-57-5		0.05	mg	