IPC ASSOCIATION ELECTRONICS	Material Comp © Copyright 2005. international and Pa	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 low 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 Type http://www.ipc.org/IPC-175x Distribute				e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and Mfg Information			
upplier	Information													
Company name* Compa			Company ur	ompany unique ID			Unique ID Authority				Response Date*			
nsemi											2023-06-08			
ontact Na	ame	Title - Contact			F	Phone - Contact*				Email - Contact*				
roduct-E	Inv-Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
uthorized	l Representative*	Title - Representative			F	Phone - Representative*			Email	Email - Representative*				
roduct-E	inv-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
	1		Mfr Item Number Mfr Item Name				Effective Date	Version	Manufacturing S	ite	Weight*	UOM	Unit Type	
			8PB 2-CH DARL	2023-06-08 THH				542.964	mg	Each				
	eturing Process Informa		Ci1 D	A11	CTD 020 MC	U Detine	De els Dese	De des Transcon	Man Time of	Deals Towns	Nh	on of Definer Con		
	, , , , , , , , , , , , , , , , , , ,		Terminal Base Alloy J-ST CU Alloy NA		-STD-020 MS	L Kating	Peak Process Body Temperature Max Time O C 30			1	seconds 3 Number of Reflow Cycles		cies	
-	Matte Tin (Sn) - annealed		OU Alloy	Γ	NA		U	IC	30	sec	onds 3			
omments														
	nformation regarding materia													

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 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 paragraph. If the Company and the Supplier shave 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 is 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 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
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