IPC ASSOCIATION ELECTRONIC	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.										
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					rials and N	ials and Mfg Information				
Supplier	· Information														
Company name*			Company unique ID			ı	Unique ID Authority					Response Date*			
nsemi											2023-0	2023-06-08			
Contact N	ame	Title - Contact			]	Phone - Contact*				Email	Email - Contact*				
Product-I	Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
uthorize	d Representative*	Title - Representative			]	Phone - Representative*				Email - Representative*					
Product-H	Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Da	ctive Date			Weight*	UOM	Unit Type			
		FODM217D 4SO TE		4SO TR	SO TR		2023-06-08			CP7		57.322	mg	Each	
Manufa	cturing Proccess Informa	ation						·						•	
	Terminal Plating / Grid Array Material Terminal Base Alloy			Alloy J-	STD-020 MS	L Rating	Peak Pro	ocess Boo	dy Temperatu	re Max Time at Pea	k Tempera	ature Nun	nber of Reflow Cy	eles	
Matte Tin (Sn) - annealed CU Alloy 1					260		C	30	seco	nds 3					
Comments															
vel 1 - m	aximum time at peak temperat	ture during sol	dering is 10-3	0 seconds											
or more i	information 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 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 uppliers 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 in 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 written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such											
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	2.0	mg	Supplier	Filler (SiO2)	68909-20-6		0.4	mg
			Supplier	Dimethyl Siloxane	68083-19-2		1.6	mg
Die	0.16	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0518	mg
			Supplier	Silicon (Si)	7440-21-3		0.1051	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0031	mg
Die Attach Epoxy	0.48	mg	Supplier	Silver (Ag)	7440-22-4		0.408	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0312	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0096	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0312	mg
Lead Frame	21.956	mg	Supplier	Zinc (Zn)	7440-66-6		0.0263	mg
			Supplier	Iron (Fe)	7439-89-6		0.516	mg
			Supplier	Copper (Cu)	7440-50-8		21.4071	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0066	mg
Mold Compound-Black	18.1	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.353	mg
			Supplier	Carbon Black (C)	1333-86-4		0.181	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		1.629	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		12.67	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.267	mg
Mold Compound-White	14.126	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.8252	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9.8882	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.4126	mg
Plating	0.1	mg	Supplier	Tin (Sn)	7440-31-5		0.1	mg
Wire Bond - Au	0.4	mg	Supplier	Gold (Au)	7440-57-5		0.4	mg