IPC ASSOCIATION ELECTRONIC	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both 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 lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
1752-21.1					Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information				
Supplie	Information														
Company	name*	Company unique ID			τ	Unique ID Authority					Response Date*				
onsemi												2024-04-29			
Contact N	ame	Title - Contact			1	Phone - Contact*				Email - Contact*					
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorize	d Representative*	Title - Representative			1	Phone - Representative*				Email - Representative*					
Product-l	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Da	Effective Date Version Manufacturin		cturing Site	Weight*		UOM	Unit Type	
		FOD817A3SD		4PB TR T&R VDE		2024-04-29			тнн		2	224.155	mg	Each	
Manufa	cturing Proccess Informa	tion					<u> </u>			,					
	Terminal Plating / Grid Array Ma	erminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temper		ture Max Time at Peak Temp		Temperat	ure Nun	mber of Reflow Cy	cles			
	Matte Tin (Sn) - annealed CU			U Alloy 1			<b>260</b> C		30	seco		ds 3			
Comments															
evel 1 - m	aximum time at peak temperatu	ire during sol	dering is 10-3	0 seconds											
or more	information regarding material	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 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 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			Substance	CAS	Exempt	Weight	Unit of Measure	
Coupling Gel	0.74	mg	Supplier	Filler (SiO2)	68909-20-6		0.148	mg
			Supplier	Dimethyl Siloxane	68083-19-2		0.592	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	0.085	mg	Supplier	Silver (Ag)	7440-22-4		0.0697	mg
			Supplier	Dicyandiamine	461-58-5		0.0009	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0145	mg
Lead Frame	55.77	mg	Supplier	Sulfur (S)	7704-34-9		0.0084	mg
			Supplier	Carbon (C)	7440-44-0		0.0558	mg
			Supplier	Silver (Ag)	7440-22-4		0.0084	mg
			Supplier	Manganese (Mn)	7439-96-5		0.1394	mg
			Supplier	Silicon (Si)	7440-21-3		0.0084	mg
			Supplier	Iron (Fe)	7439-89-6		55.5246	mg
			Supplier	Copper (Cu)	7440-50-8		0.0167	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0084	mg
Mold Compound-Black	100.0		В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		2	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		17	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		3	mg
			Supplier	Carbon Black (C)	1333-86-4		1	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		70	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		7	mg
Mold Compound-White	63.2	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		18.96	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		44.24	mg
Plating	4.21	mg	Supplier	Tin (Sn)	7440-31-5		4.21	mg
Wire Bond - Au	0.051	mg	Supplier	Gold (Au)	7440-57-5		0.051	mg