IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	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 lower 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 Typhttp://www.ipc.org/IPC-175x Distribute				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplier Informa	ntion														
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
nsemi												2023-06-08			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-Stewar	ds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
uthorized Represen	tative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
roduct-Env-Stewar	ds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requester	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective Date	ate Version Manufacturing Site		ring Site	,	Weight*	UOM	Unit Type	
		FOD3184 8PW 3A GD DI		8PW 3A GD DIP			2023-06-08 THH			:	598.07	mg	Each		
	roccess Informatio											_			
, , , , , , , , , , , , , , , , , , ,					-STD-020 MSI	L Rating		Peak Process Body Temperature Max Time		ime at Peak	<u> </u>		eles		
Matte Tin	(Sn) - annealed	C	U Alloy	N	VA.		0		C	30		secon	ds 3		
omments															
r more information	n regarding material co	mposition j	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 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 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided in 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	209.511	mg	Supplier	Filler (SiO2)	68909-20-6		94.2799	mg
			Supplier	Xylene	1330-20-7		115.2311	mg
Die	0.896	mg	Supplier	Silicon (Si)	7440-21-3		0.896	mg
Die Attach	0.25	mg	Supplier	Silver (Ag)	7440-22-4		0.205	mg
			Supplier	Dicyandiamine	461-58-5		0.0025	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0425	mg
Die GaAs	0.224	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.224	mg
Lead Frame	115.0	mg	Supplier	Silver (Ag)	7440-22-4		0.7476	mg
			Supplier	Zinc (Zn)	7440-66-6		0.1438	mg
			Supplier	Iron (Fe)	7439-89-6		2.7028	mg
			Supplier	Copper (Cu)	7440-50-8		111.311	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0949	mg
Mold Compound-White	260.539	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		65.1348	mg
			В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		7.8162	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		35.1728	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		7.8162	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		130.2695	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		14.3296	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