ASSOCIATION CONNECT	© Copyright 2005. I	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 Typ http://www.ipc.org/IPC-175x Distribute				e * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						als and Mfg	Informat	ion		
Supplier Infor	mation															
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*				
nsemi													2023-06-08			
Contact Name		Title - Contact			F	Phone - Contact*					Email - Contact*					
Product-Env-Ste	wards	Product Enviro Compliance			1	NA					Product-Env-Stewards@onsemi.com					
Authorized Repre	esentative*	Title - Representative			F	Phone - Representative*					Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com					
Reque	ster Item Number						Effective Date	e Version	n N	Manufacturing Site		W	eight*	UOM	Unit Type	
							2023-06-08	06-08 THH			74.267 mg		mg	Each		
Ianufacturin	g Proccess Informa	tion														
Termin	al Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MS	L Rating Peak Proc		cess Body	ss Body Temperature Max Time at P		e at Peak	k Temperature Numb		mber of Reflow Cycles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		245		C 30			second	3			
Comments									·							
vel 1 - maximun	n time at peak temperatu	ire during so	oldering is 10-3	30 seconds		·						·	·			
or more informa	tion regarding material	composition	please refer to	page 3										<u> </u>		

RoHS Material Composition Declaration			Declaration Type *	Detail	led				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an						
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the this and/or remedies provided as part of				
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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
Die	0.267	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0864	mg
1			Supplier	Silicon (Si)	7440-21-3		0.1754	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0052	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
Lead Frame	24.951	mg	Supplier	Silver (Ag)	7440-22-4		1.28	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0449	mg
			Supplier	Iron (Fe)	7439-89-6		0.6138	mg
			Supplier	Copper (Cu)	7440-50-8		22.9774	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0349	mg
Mold Compound-White	45.0	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		11.25	mg
			В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		1.35	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		6.075	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.35	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		22.5	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		2.475	mg
Plating	0.239	mg	Supplier	Palladium (Pd)	7440-05-3		0.0095	mg
			В	Nickel (Ni)	7440-02-0		0.2238	mg
			Supplier	Gold (Au)	7440-57-5		0.0057	mg
Protective Coating	3.4	mg	Supplier	Poly(dimethylsiloxane), hydroxy terminated	70131-67-8		1.7	mg
			Supplier	Ethylbenzene	100-41-4		0.34	mg
			Supplier	Filler (SiO2)	68909-20-6		0.646	mg
			Supplier	Misc.	Proprietary Data		0.034	mg
			Supplier	Xylene	1330-20-7		0.68	mg
Wire Bond - Au	0.16	mg	Supplier	Gold (Au)	7440-57-5		0.16	mg