IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	Material Compos © Copyright 2005. IPC international and Pan-A	sition Dec C, Bannockb American co	laration urn, Illinois. A pyright conve	All rights reserved un	This clevel					vithin the manufactulevel materials for v					
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distr				Form Type * Distribute	orm Type * Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					rials and M	fg Informa	tion		
upplier Informa									,			<u> </u>			
Company name*			Company unique ID			Un	Unique ID Authority					Response Date*			
onsemi											2023-06	2023-06-08			
ontact Name	Title - Contact			Ph	Phone - Contact*				Email -	Email - Contact*					
Product-Env-Stewards			Product Enviro Compliance			N.	NA				Produc	Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			Ph	Phone - Representative*				Email -	Email - Representative*			
Product-Env-Stewards			Product Enviro Compliance			N.	NA				Product-Env-Stewards@onsemi.com				
Requester 1	Requester Item Number Mfr Ite		tem Number Mfr Item Name			E	Effective Date	Date Version Manufactu		Ianufacturing Site	,	Weight*	UOM	Unit Type	
		driver with			SOR NA; Single phase sensor method (no speed		023-06-08		P.	РНМ		80.0	mg	Each	
anufacturing P	roccess Informatio	n													
Terminal Plating / Grid Array Material T		Terminal Base Alloy J-S		-STD-020 MSL Ratii	ng	Peak Proc	ocess Body Temperature Max Time at Peak		k Temperat	ure Num	ber of Reflow Cyc	eles			
Sn alloys with no Bi or Zn excluding SnAgCu		ing	CU Alloy 3				260		С	30 sec		seconds 3			
omments															
TTENTION: MSL 3	3 Rated item requires E	Bake and D	ry Pack (afte	r electrical test)											
	regarding material co		· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	· · · · · · · · · · · · · · · · · · ·											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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).											
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 to the identified part, the company's remedies for issues that arise respects the company is the company that the company tha	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 hts 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	2.5	mg	Supplier	Silicon (Si)	7440-21-3		2.4907	mg
			Supplier	Polyimide	Proprietary Data		0.0093	mg
Die Attach	0.2	mg	Supplier	Silver (Ag)	7440-22-4		0.153	mg
			Supplier	Epoxy resins	129915-35-1		0.047	mg
Lead Frame	27.78	mg	Supplier	Silver (Ag)	7440-22-4		0.1861	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0333	mg
			Supplier	Iron (Fe)	7439-89-6		0.6528	mg
			Supplier	Copper (Cu)	7440-50-8		26.8994	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0083	mg
Mold Compound-Black	48.69	mg		Epoxy Phenol Resin	proprietary data		5.8428	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1948	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.1917	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.4607	mg
Plating	0.68	mg	В	Bismuth (Bi)	7440-69-9		0.0041	mg
			Supplier	Tin (Sn)	7440-31-5		0.6759	mg
Wire Bond - Au	0.15	mg	Supplier	Gold (Au)	7440-57-5		0.15	mg