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.											
	IDC Web Site for Information on IDC 1752 Standard Form Type				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
Supplier Information															
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi											2023-06-08				
Contact Name	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*					
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Authorized Representative*	Title - Repre	Title - Representative			Phone - Representative*				Email - Representative*						
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Requester Item Number Mfr Item		Item Number	Number Mfr Item Name			Effective Date	Versio	Version Manufacturing Site		We	ight*	UOM	Unit Type		
		.C87F7DC8AVU- DIP-H 8-bit Microcontro		ller		2023-06-08				1500.0		mg	Each		
Manufacturing Procee	ess Information														
Terminal Plating /	Terminal Plating / Grid Array Material T		Cerminal Base Alloy J-ST		Rating	Peak Process Body Temperatu		re Max Tin	ne at Peak	Peak Temperature		er of Reflow Cyc	eles		
contains Bi		CU Alloy	CU Alloy 4			260		С	30		seconds	3			
Comments															
or more information regar	ding material composi	tion please refer to	nage 3												

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 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 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 applicable exemptions.	contain RoHS restricted substances per	the definition above except for defined Ro	oHS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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 recruired 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	6.24	mg	Supplier	Silicon (Si)	7440-21-3		6.2013	mg
			Supplier	Polyimide	Proprietary Data		0.0387	mg
Die Attach	0.61	mg	Supplier	Silver (Ag)	7440-22-4		0.4667	mg
			Supplier	Epoxy resins	129915-35-1		0.1434	mg
Lead Frame	350.5	mg	Supplier	Silver (Ag)	7440-22-4		0.5079	mg
			Supplier	Zinc (Zn)	7440-66-6		0.4374	mg
			Supplier	Iron (Fe)	7439-89-6		8.2248	mg
			Supplier	Copper (Cu)	7440-50-8		341.041	mg
			Supplier	Phosphorus (P)	7723-14-0		0.2888	mg
Mold Compound-Black	1130.11	mg		Epoxy Phenol Resin	proprietary data		135.6132	mg
			Supplier	Carbon Black (C)	1333-86-4		4.5204	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		956.073	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		33.9033	mg
Plating	10.65	mg	В	Bismuth (Bi)	7440-69-9		0.0639	mg
			Supplier	Tin (Sn)	7440-31-5		10.5861	mg
Wire Bond - Au	1.89	mg	Supplier	Gold (Au)	7440-57-5		1.89	mg