ASSOCIATION ELECTRONICS	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bot international and Pan-American copyright conventions.				der 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		IPC Web Site for Information on IPC-1752 Standard  http://www.ipc.org/IPC-175x  Form Typ Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					rials and N	ials and Mfg Information			
Supplier	Information														
Company name* Compa				ompany unique ID			Unique ID Authority				Respon	Response Date*			
onsemi											2023-0	2023-06-08			
Contact Na	ame		Title - Contact				Phone - Contact*				Email	Email - Contact*			
Product-E	nv-Stewards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized	l Representative*		Title - Representative			]	Phone - Representative*				Email	Email - Representative*			
Product-E	nv-Stewards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Da	Date Version Manufacturing Site			Weight*	UOM	Unit Type		
		74VHC139M Dual 2-to-4 Decode		er/Demux		2023-06-08 PH1		PH1		147.797	mg	Each			
Manufac	cturing Proccess Informa	ation													
Terminal Plating / Grid Array Material T			Terminal Base Alloy J-STD-020 MSI			SL Rating	Peak Process Body Temperature Max Time at P			re Max Time at Pea	ak Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy			1			260		C	30	seco	nds 3				
Comments															
vel 1 - ma	aximum time at peak temperat	ure during sol	dering is 10-3	0 seconds											
or more i	nformation regarding materia	l 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).											
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
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
Die	4.35	mg	Supplier	Silicon (Si)	7440-21-3		4.35	mg
Die Attach	0.44	mg		Epoxy resin	proprietary data		0.044	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.022	mg
			Supplier	Silver (Ag)	7440-22-4		0.352	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.022	mg
Lead Frame	46.4	mg	Supplier	Silver (Ag)	7440-22-4		0.2042	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0603	mg
			Supplier	Iron (Fe)	7439-89-6		1.1136	mg
			Supplier	Copper (Cu)	7440-50-8		45.0034	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0186	mg
Mold Compound-Black	93.9	mg		Epoxy resin	proprietary data		4.695	mg
			Supplier	Phenolic Resin	Proprietary Data		1.878	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.3475	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4695	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		84.51	mg
Plating	2.31	mg	Supplier	Tin (Sn)	7440-31-5		2.31	mg
Wire Bond - Au	0.397	mg	Supplier	Gold (Au)	7440-57-5		0.397	mg