ASSOCIATION CONNE	© Copyright 2005.	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 Ty http://www.ipc.org/IPC-175x Distribut														
Supplier Info	rmation															
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*				
nsemi													2023-06-08			
Contact Name			Title - Contac	- Contact J			Phone - Contact*				Email	Email - Contact*				
Product-Env-Sto	ewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com					
uthorized Repr	resentative*	Title - Representative			1	Phone - Representative*				Email	Email - Representative*					
Product-Env-Sto	ewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com					
Requ	ester Item Number			Item Number Mfr Item Name  74HC245AMTCX OCTAL TRI-STATE XCVR			Effective Date	Version	ersion Manufacturing Site		Site	Weight* UOM		UOM	Unit Type	
							2023-06-08 PH4			73.35 mg		mg	Each			
Ianufacturii	ng Proccess Informa	ation														
Termi	erminal Plating / Grid Array Material		Terminal Base Alloy J		J-STD-020 MS	L Rating	Peak Process Body Temperature		e Max Time at Peak Temper		ature	ure Number of Reflow Cycles		eles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy		1		260		С		seco	nds	3			
Comments																
vel 1 - maximu	m time at peak temperat	ure during so	oldering is 10-3	0 seconds												
or more inform	nation regarding material	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).											
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 has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the 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 have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard											
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	1.25	mg	Supplier	Silicon (Si)	7440-21-3		1.25	mg
Die Attach	0.136	mg		Epoxy resin	proprietary data		0.0136	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.0068	mg
			Supplier	Silver (Ag)	7440-22-4		0.1088	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0068	mg
Lead Frame	30.624	mg	Supplier	Zinc (Zn)	7440-66-6		0.0367	mg
			Supplier	Iron (Fe)	7439-89-6		0.7197	mg
			Supplier	Copper (Cu)	7440-50-8		29.8584	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0092	mg
Mold Compound-Black	40.867	mg		Epoxy resin	proprietary data		3.065	mg
			Supplier	Phenolic Resin	Proprietary Data		1.0217	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.065	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2043	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		33.5109	mg
Plating	0.223		Supplier	Palladium (Pd)	7440-05-3		0.006	mg
			В	Nickel (Ni)	7440-02-0		0.213	mg
			Supplier	Gold (Au)	7440-57-5		0.004	mg
Wire Bond - Cu	0.25	mg	Supplier	Copper (Cu)	7440-50-8		0.25	mg