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 Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						als and Mf	g Informa	ation	
Supplier Info	ormation														
Company name* Comp				Company unique ID			Unique ID Authority					Response Date*			
nsemi												2023-06-08			
Contact Name			Title - Contac	Title - Contact			Phone - Contact*					Email - Contact*			
Product-Env-St	tewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - Ro				tle - Representative			Phone - Representative*				Email - Representative*				
Product-Env-St	tewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requ	uester Item Number	Mfr Item Number Mfr Item Mr Item Mr Item MC74HC165AMNTW 8-Bit Shif		Item Number Mfr Item Name			Effective Da	te Vers	Version Manufacturing		ing Site	W	eight*	UOM	Unit Type
				8-Bit Shift Regis	Bit Shift Register		2023-06-08 THB		НВ	2		1.98	mg	Each	
Ianufacturi	ng Proccess Informa	tion													
Termi	inal Plating / Grid Array M	Plating / Grid Array Material		Terminal Base Alloy		SL Rating	Peak Pro	Peak Process Body Temperature		e Max Ti	me at Peak	Temperatu	ire Number of Reflow Cycles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		С	30 seco		second	s 3		
comments					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u> </u>								
vel 1 - maximu	ım time at peak temperat	ure during so	oldering is 10-3	0 seconds											
or more inform	nation regarding material	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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all						
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	0.25	mg	Supplier	Silicon (Si)	7440-21-3		0.25	mg
Die Attach	0.65		Supplier	Silver (Ag)	7440-22-4		0.4875	mg
			Supplier	Epoxy resins	129915-35-1		0.1625	mg
Lead Frame	10.18	mg	Supplier	Silver (Ag)	7440-22-4		0.7533	mg
			Supplier	Copper (Cu)	7440-50-8		9.4267	mg
Mold Compound-Black	11.75	mg		Epoxy resin	proprietary data		0.8225	mg
			Supplier	Phenolic Resin	Proprietary Data		0.8225	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.7625	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0587	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.2837	mg
Plating	0.44	mg	Supplier	Tin (Sn)	7440-31-5		0.44	mg
Wire Bond - Au	1.71	mg	Supplier	Gold (Au)	7440-57-5		1.71	mg