IPC ASSOCIATION CONNECTINE ELECTRONICS INDUSTRIE	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.									
752-21.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Type Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materia					als and Mfg Information			
upplier Inform								,						
Company name* Company unio			oany unique ID	Unique I			Inique ID Authority			Response Date*				
nsemi									2023-06-08					
Contact Name		Title	Title - Contact			Phone - Contact*			Email - Contact*					
Product-Env-Stewards			Product Enviro Compliance			NA			Product-Env-Stewards@onsemi.com					
Authorized Representative*			Title - Representative			Phone - Representative*			Email - Representative*					
Product-Env-Stewards Product			act Enviro Compliance		NA Product-Env-Stewards@onsemi.com				m					
Requester Item Number		Mfr Item Numb	m Number Mfr Item Name			Effective Date	Version	N	Ianufacturing Site	V	Veight*	UOM	Unit Type	
		ASX340AT2C0 D0-DPBR2	00XPE VGA 1/4 SOC			2023-06-08		Т	A1	1	08.93	mg	Each	
Ianufacturing	Proccess Information	n												
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD			J-STD-020 MS	SL Rating	Peak Proc	ess Body Ter	nperature	e Max Time at Peak	Temperatu	re Numb	er of Reflow Cyc	eles		
SnAgCu		CU Allo	ру	3		260		C	30	second	ls 3			
omments														
TTENTION: MSI	3 Rated item requires B	ake and Dry Pac	k (after electrical test)											
or more information	on regarding material con	nposition please	refer to page 3											

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), Diisobutyl phthalate (DIBP).											
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	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit ide in you believe may apply. If the part is an assembly 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 e 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 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 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	23.9	mg		Misc.	proprietary data		0.0908	mg
			Supplier	Silicon (Si)	7440-21-3		23.5726	mg
			Supplier	Aluminum (Al)	7429-90-5		0.2366	mg
Die Attach	2.2	mg		Bismaleimide Monomer	proprietary data		0.847	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.011	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.22	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.011	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.22	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.22	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.011	mg
			Supplier	Other Additive Agents	Proprietary Data		0.44	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.22	mg
Imaging Lens	29.31	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.5426	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.5426	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.5426	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.1545	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.5426	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.5426	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		21.4426	mg
Lid Attach	1.52	mg	Supplier	2,2-Bis(glycidyloxyphenyl)propane polymer	25085-99-8		0.38	mg
			Supplier	3,4-EPOXYCYCLOHEXYLMETHYL	2386-87-0		1.102	mg
			Supplier	Misc.	Proprietary Data		0.038	mg
Mold Compound	8.1	mg		Epoxy resin	proprietary data		2.0088	mg
			Supplier	Other Additive Agents	Proprietary Data		0.2592	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.81	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		4.779	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.243	mg
Solder Ball	24.55	mg	Supplier	Silver (Ag)	7440-22-4		0.7365	mg

			Supplier	Tin (Sn)	7440-31-5	23.6907	mg
			Supplier	Copper (Cu)	7440-50-8	0.1227	mg
Solder Mask	2.06	mg		Epoxy resin	proprietary data	0.2472	mg
			Supplier	Acrylate	Proprietary Data	0.7869	mg
			Supplier	Talc	14807-96-6	0.0556	mg
			Supplier	Miscellaneous	Trade Secret	0.0762	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	0.894	mg
Substrate Copper Foil	1.59	mg	Supplier	Copper (Cu)	7440-50-8	1.59	mg
Substrate - Core Material	7.88	mg		Epoxy resin	proprietary data	1.7076	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	6.1724	mg
Substrate Plating-Au	0.14	mg	Supplier	Gold (Au)	7440-57-5	0.14	mg
Substrate Plating-Cu	7.1	mg	Supplier	Copper (Cu)	7440-50-8	7.1	mg
Substrate Plating-Ni	0.33	mg	В	Nickel (Ni)	7440-02-0	0.33	mg
Wire Bond - Au	0.25	mg	Supplier	Gold (Au)	7440-57-5	0.25	mg