IPC ASSOCIATION CONNE	Material Comp © Copyright 2005. I international and Par	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 Form Type http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					ion			
upplier Info										,		<u>.</u>			
Company name* Company unique ID			que ID		Unique ID Authority				Respo	Response Date*					
nsemi										2024-0	2024-04-19				
Contact Name			Title - Contact			I	Phone - Contact*				Email	Email - Contact*			
Product-Env-Ste	ewards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
uthorized Repr	resentative*	Title - Representative			I	Phone - Representative*			Email	Email - Representative*					
Product-Env-Stewards Prod				luct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Reque	Requester Item Number Mfr Item		Number	mber Mfr Item Name Effective Date Version Ma		Manufacturing Site Weight*		UOM	Unit Type						
		ASX344 A0-VL-7	ATSC00XUE ΓPBR	VGA 1/4 CIS SOO	C		2024-04-19			MY5		180.8	mg	Each	
Ianufacturi r	ng Proccess Informa	tion													
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MSL				SL Rating	Peak Prod	cess Bod	y Temperatu	re Max Time at Po	ak Temper	ature Numl	per of Reflow Cyc	cles			
SnAgCu		CU Alloy	3	3		260		C	30	seco	onds 3				
omments	<u> </u>									<u> </u>		<u>'</u>			
TTENTION: M	ASL 3 Rated item require	s Bake and D	ry Pack (after	electrical test)											
or more inform	ation 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	22.05	mg		Misc.	proprietary data		0.0838	mg
			Supplier	Silicon (Si)	7440-21-3		21.7479	mg
			Supplier	Aluminum (Al)	7429-90-5		0.2183	mg
Die Attach	0.97	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.3638	mg
			Supplier	Ethylene Glycol	107-21-1		0.0097	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.0291	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.2037	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.3638	mg
Imaging Lens	34.06	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.7926	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.7926	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.7926	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.1795	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.7926	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.7926	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		24.9176	mg
Lid Attach	1.05	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.315	mg
			Supplier	Filler (SiO2)	68909-20-6		0.0525	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.3412	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.3412	mg
Mold Compound-Black	40.48	mg		Phenolic Resin	proprietary data		6.072	mg
			Supplier	Oxirane	39817-09-9		6.072	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.2144	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4048	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		25.9072	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.8096	mg
Solder Ball	30.61	mg	Supplier	Silver (Ag)	7440-22-4		0.9183	mg
			Supplier	Tin (Sn)	7440-31-5		29.5387	mg
			Supplier	Copper (Cu)	7440-50-8		0.1531	mg
Substrate and Solder Mask	51.12	mg	Supplier	Bis(3-ethyl-5-methyl-4-maleimidophenyl)methane	105391-33-1		0.5725	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		6.6252	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0767	mg

			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6	1.1911	mg
			Supplier	Cyanic acid (1-methylethylidene)di-4,1- phenylene ester homopolymer	25722-66-1	0.5725	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	0.2965	mg
			Supplier	Chromium (Cr)	7440-47-3	0.0051	mg
			Supplier	Acetophenone Derivative	Proprietary Data	1.7841	mg
			Supplier	Carbon Black (C)	1333-86-4	0.2965	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.2965	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2	6.1344	mg
			В	Nickel (Ni)	7440-02-0	0.7208	mg
			Supplier	Gold (Au)	7440-57-5	0.0256	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	3.5733	mg
			Supplier	Formaldehyde Polymer	9003-36-5	0.5725	mg
			Supplier	Copper (Cu)	7440-50-8	19.1496	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	9.2272	mg
Wire Bond - Au	0.46	mg	Supplier	Gold (Au)	7440-57-5	0.46	mg