IPC ASSOCIATION CONI ELECTRONICS INDE	Material Comp © Copyright 2005. Il international and Par	© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe 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				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information									
upplier Inf										,		8			
Company name* Company unique ID					τ	Unique ID Authority					Response Date*				
nsemi										2024-05	2024-05-03				
Contact Name	:		Title - Contact			1	Phone - Contact*				Email - Contact*				
Product-Env-S	Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - F				Representative			Phone - Representative*			Email - Representative*					
Product-Env-S	Stewards		Product Envir	ro Compliance			NA					Product-Env-Stewards@onsemi.com			
Rec	quester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	e Versio	Version Manufacturing Site			Weight*	UOM	Unit Type	
		AR0143A A0-TPBI	ATSC00XUE	1.3MP 1/4 CIS			2024-05-03			MY5		197.96	mg	Each	
Ianufactur	ring Proccess Informa	tion													
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 M			J-STD-020 MSI	L Rating	Peak Pro	cess Body	Temperatu	re Max Time at Peak	Tempera	ture Numb	er of Reflow Cyc	cles			
SnAgCu CU Alloy		3	3		260		C	30	secor	nds 3					
omments	·			<u> </u>								·		<u> </u>	
TTENTION:	: MSL 3 Rated item require	s Bake and D	ry Pack (after	electrical test)											
or more infor	rmation 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		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a		
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	28.5	mg		Misc.	proprietary data		0.1083	mg
			Supplier	Silicon (Si)	7440-21-3		28.1096	mg
			Supplier	Aluminum (Al)	7429-90-5		0.2822	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	34.8	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.8315	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.8315	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.8315	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.1834	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.8315	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.8315	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		25.459	mg
Lid Attach	1.75	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.525	mg
			Supplier	Filler (SiO2)	68909-20-6		0.0875	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.5687	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.5687	mg
Mold Compound-Black	45.67	mg		Phenolic Resin	proprietary data		6.8505	mg
			Supplier	Oxirane	39817-09-9		6.8505	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.3701	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4567	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		29.2288	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.9134	mg
Solder Ball	33.42	mg	Supplier	Silver (Ag)	7440-22-4		1.0026	mg
			Supplier	Tin (Sn)	7440-31-5		32.2503	mg
			Supplier	Copper (Cu)	7440-50-8		0.1671	mg
Substrate and Solder Mask	52.39	mg	Supplier	Bis(3-ethyl-5-methyl-4-maleimidophenyl)methane	105391-33-1		0.5868	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		6.7897	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0786	mg

			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6	1.2207	mg
			Supplier	Cyanic acid (1-methylethylidene)di-4,1-phenylene ester homopolymer	25722-66-1	0.5868	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	0.3039	mg
			Supplier	Chromium (Cr)	7440-47-3	0.0052	mg
			Supplier	Acetophenone Derivative	Proprietary Data	1.8284	mg
			Supplier	Carbon Black (C)	1333-86-4	0.3039	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.3039	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2	6.2868	mg
			В	Nickel (Ni)	7440-02-0	0.7387	mg
			Supplier	Gold (Au)	7440-57-5	0.0262	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	3.6621	mg
			Supplier	Formaldehyde Polymer	9003-36-5	0.5868	mg
			Supplier	Copper (Cu)	7440-50-8	19.6253	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	9.4564	mg
Wire Bond - Au	0.46	mg	Supplier	Gold (Au)	7440-57-5	0.46	mg