ASSOCIATION CONNECT	Material Compos © Copyright 2005. IPC international and Pan-A	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 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								
Supplier Infor	mation														
Company name* Company unique ID					J	Unique ID Authority				Response Date*					
nsemi											2024-05	2024-05-08			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-Ste	wards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - F				Representative			Phone - Representative*			Email -	Email - Representative*				
Product-Env-Stewards Product Enviro Compliance					NA Product-Env-Stewards@onsemi.com					m					
Reque	ster Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type	
		AR0233A A1-TRBF		2MP 1/3 CIS SO			2024-05-08		-	ΓΑ1		245.7	mg	Each	
Ianufacturin	g Proccess Informatio	on													
Terminal Plating / Grid Array Material Terminal Base Alloy			Alloy	J-STD-020 MSL	Rating	Peak Proc	ess Body T	Cemperatu	re Max Time at Peak	Tempera	ture Numb	er of Reflow Cyc	eles		
SnAgCu		U Alloy		3		260		С	30	secor	nds 3				
omments															
TTENTION: M	SL 3 Rated item requires E	Bake and Di	ry Pack (after	electrical test)											
or more informa	ntion regarding material co	mposition p	olease refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an		
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 the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble 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	51.92	mg		Misc.	proprietary data		0.1973	mg
			Supplier	Silicon (Si)	7440-21-3		51.2087	mg
			Supplier	Aluminum (Al)	7429-90-5		0.514	mg
Die Attach	3.16	mg		Bismaleimide Monomer	proprietary data		1.2166	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.0158	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.316	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.0158	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.316	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.316	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0158	mg
			Supplier	Other Additive Agents	Proprietary Data		0.632	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.316	mg
Epoxy	1.6	mg	Supplier	Imidazole Addition	68490-66-4		0.48	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.16	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.16	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.16	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.64	mg
Imaging Lens	35.37	mg	Supplier	Sulfur (S)	7704-34-9		0.1768	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.7685	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.7685	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		1.7685	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.7685	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.7685	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.7685	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		24.5821	mg
Mold Compound	71.19	mg	Supplier	Triphenylphosphine	603-35-0		0.3559	mg
			Supplier	Trimethoxysilylpropanethiol	4420-74-0		0.3559	mg
			Supplier	Oxirane	39817-09-9		14.238	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		14.238	mg

			Supplier	Misc.	Proprietary Data	3.5595	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	34.8831	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	3.5595	mg
Solder Ball	37.75	mg	Supplier	Silver (Ag)	7440-22-4	1.1325	mg
			Supplier	Tin (Sn)	7440-31-5	36.4287	mg
			Supplier	Copper (Cu)	7440-50-8	0.1887	mg
Solder Mask	4.77	mg		Epoxy resin	proprietary data	0.5724	mg
			Supplier	Acrylate	Proprietary Data	1.8221	mg
			Supplier	Talc	14807-96-6	0.1288	mg
			Supplier	Miscellaneous	Trade Secret	0.1765	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	2.0702	mg
Substrate Copper Foil	3.68	mg	Supplier	Copper (Cu)	7440-50-8	3.68	mg
Substrate - Core Material	18.25	mg		Epoxy resin	proprietary data	10.585	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	7.665	mg
Substrate Plating-Au	0.31	mg	Supplier	Gold (Au)	7440-57-5	0.31	mg
Substrate Plating-Cu	16.42	mg	Supplier	Copper (Cu)	7440-50-8	16.42	mg
Substrate Plating-Ni	0.76	mg	В	Nickel (Ni)	7440-02-0	0.76	mg
Wire Bond - Au	0.52	mg	Supplier	Gold (Au)	7440-57-5	0.52	mg