IPC ASSOCIATION CONNECTELECTRONICS INDUSTRI	© 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 Materi					als and Mfg Information			
upplier Infor									,					
Company name* Company unique			que ID	Unique ID			que ID Authority			Response Date*				
nsemi										2024-04	2024-04-27			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-Ste	wards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
uthorized Repre	esentative*	Title - Repres	Citle - Representative			Phone - Representative*			Email - Representative*					
Product-Env-Stewards Product Enviro Compliance					NA				Product-Env-Stewards@onsemi.com					
Reque	ester Item Number	Mfr Item I	Number	Mfr Item Name			Effective Date	Version	n l	Manufacturing Site	1	Weight*	UOM	Unit Type
		AR0147A A5-DPBR	TSC00XUE	1MP 1/4 CIS SO			2024-04-27		1	MY5	1	182.002	mg	Each
Ianufacturin	g Proccess Informatio	on												
Terminal Plating / Grid Array Material Terminal I		rminal Base A	Alloy	J-STD-020 MS	MSL Rating Peak Process Boo			Temperatu	re Max Time at Peak	Temperat	ure Numb	er of Reflow Cyc	cles	
SnAgCu		U Alloy	3	3		260		C	30	secon	ds 3			
omments														
ITENTION: M	SL 3 Rated item requires I	Bake and Dr	y Pack (after	electrical test)										
or more informa	ation regarding material co	omposition p	lease 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	18.4	mg		Misc.	proprietary data		0.0699	mg
			Supplier	Silicon (Si)	7440-21-3		18.1479	mg
			Supplier	Aluminum (Al)	7429-90-5		0.1822	mg
Die Attach	1.315	mg		Bismaleimide Monomer	proprietary data		0.5063	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.0066	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.1315	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.0066	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.1315	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.1315	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0066	mg
			Supplier	Other Additive Agents	Proprietary Data		0.263	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.1315	mg
Ероху	1.214	mg	Supplier	Imidazole Addition	68490-66-4		0.3642	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.1214	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.1214	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.1214	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.4856	mg
Imaging Lens	17.649	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.9289	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		0.9289	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.9289	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.093	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.9289	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		0.9289	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		12.9117	mg
Mold Compound	7.325	mg	Supplier	Hexahydromethylphthalic anhydride	25550-51-0		0.7325	mg
			Supplier	1,6-Bis(2,3-epoxypropoxy)naphthalene	27610-48-6		0.3663	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.3663	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.86	mg
Solder Ball	38.864	mg	Supplier	Silver (Ag)	7440-22-4		1.1659	mg

			Supplier	Tin (Sn)	7440-31-5	37.5038	mg
			Supplier	Copper (Cu)	7440-50-8	0.1943	mg
Solder Mask	14.92	mg		Epoxy resin	proprietary data	8.1911	mg
			Supplier	Talc	14807-96-6	0.5222	mg
			Supplier	Misc.	Proprietary Data	0.3133	mg
			Supplier	Carbon Black (C)	1333-86-4	0.0746	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	0.2984	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	5.5204	mg
Substrate Copper Foil	9.63	mg	Supplier	Copper (Cu)	7440-50-8	9.63	mg
Substrate - Core Material	61.62	mg		Epoxy resin	proprietary data	13.3531	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	48.2669	mg
Substrate Plating-Au	2.41	mg	Supplier	Gold (Au)	7440-57-5	2.41	mg
Substrate Plating-Cu	1.93	mg	Supplier	Copper (Cu)	7440-50-8	1.93	mg
Substrate Plating-Ni	5.78	mg	В	Nickel (Ni)	7440-02-0	5.78	mg
Wire Bond - Au	0.945	mg	Supplier	Gold (Au)	7440-57-5	0.945	mg