ASSOCIATION CONNECTI ELECTRONICS INDUSTRI	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 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 Materi				ials and Mfc Information			
upplier Infori														
Company name* Compan			Company uni	ny unique ID			Unique ID Authority				Response Date*			
nsemi										2024-05-03				
Contact Name			Title - Contact			1	Phone - Contact*				Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			1	Phone - Representative*			Email - Representative*				
Product-Env-Stewards Product Env			Product Envir	ro Compliance	NA Product-Env-Stewards@onsemi.				ards@onsemi.co	om				
Reques	ter Item Number	Mfr Item Number		Mfr Item Name			Effective Date	e Versio	on :	Manufacturing Site	V	Weight*	UOM	Unit Type
		AR0144A A0-DPBR		1MP 1/4 CIS SO			2024-05-03			TA1	1	.06.72	mg	Each
<b>Ianufacturing</b>	Process Information	on												
Terminal Plating / Grid Array Material Terminal Ba		erminal Base A	Alloy	J-STD-020 MS	L Rating	Peak Process Body Temperature Max Time at Pe		re Max Time at Peak	Temperat	ure Numb	er of Reflow Cyc	cles		
SnAgCu CU		U Alloy	(	3		260		С	30	secon	ds 3			
omments														
TTENTION: MS	L 3 Rated item requires I	Bake and Dr	ry Pack (after	electrical test)										
or more informat	ion regarding material co	omposition p	olease 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 the company is the co	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 the at least as comprehensive as the this 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	16.35	mg		Misc.	proprietary data		0.0621	mg
			Supplier	Silicon (Si)	7440-21-3		16.126	mg
			Supplier	Aluminum (Al)	7429-90-5		0.1619	mg
Die Attach	1.35	mg		Bismaleimide Monomer	proprietary data		0.5197	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.0068	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.135	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.0068	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.135	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.135	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0068	mg
			Supplier	Other Additive Agents	Proprietary Data		0.27	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.135	mg
Ероху	1.03	mg	Supplier	Imidazole Addition	68490-66-4		0.309	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.103	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.103	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.103	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.412	mg
Imaging Lens	8.8	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.44	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		0.44	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		0.44	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.44	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.044	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.44	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		0.44	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		6.116	mg
Mold Compound	31.06	mg		Epoxy resin	proprietary data		7.7029	mg
			Supplier	Other Additive Agents	Proprietary Data		0.9939	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.106	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		18.3254	mg

			Supplier	Silica Crystalline (SiO2)	14808-60-7	0.9318	mg
Solder Ball	30.04	mg	Supplier	Silver (Ag)	7440-22-4	0.9012	mg
			Supplier	Tin (Sn)	7440-31-5	28.9886	mg
			Supplier	Copper (Cu)	7440-50-8	0.1502	mg
Solder Mask	1.92	mg		Epoxy resin	proprietary data	0.2304	mg
			Supplier	Acrylate	Proprietary Data	0.7334	mg
			Supplier	Talc	14807-96-6	0.0518	mg
			Supplier	Miscellaneous	Trade Secret	0.071	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	0.8333	mg
Substrate Copper Foil	1.47	mg	Supplier	Copper (Cu)	7440-50-8	1.47	mg
Substrate - Core Material	7.32	mg		Epoxy resin	proprietary data	4.2456	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	3.0744	mg
Substrate Plating-Au	0.17	mg	Supplier	Gold (Au)	7440-57-5	0.17	mg
Substrate Plating-Cu	6.6	mg	Supplier	Copper (Cu)	7440-50-8	6.6	mg
Substrate Plating-Ni	0.3	mg	В	Nickel (Ni)	7440-02-0	0.3	mg
Wire Bond - Au	0.31	mg	Supplier	Gold (Au)	7440-57-5	0.31	mg