ASSOCIATION CONNECT ELECTRONICS INDUSTR	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  Form Type				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfc Information			
upplier Infor										,		-			
Company name* Company u			Company uni	que ID Uniqu			Unique ID Authority				Respon	Response Date*			
nsemi										2023-0	2023-06-08				
Contact Name			Title - Contact			I	Phone - Contact*				Email	Email - Contact*			
Product-Env-Stev	wards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
uthorized Repre	esentative*		Title - Representative			I	Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA			Produ	Product-Env-Stewards@onsemi.com				
Reques	Requester Item Number Mfr Iter		Number Mfr Item Name			Effective Date	Versi	ion	Manufacturing Site		Weight*	UOM	Unit Type		
		AS0140A7 M0-TPBR	Γ2C00XUS	1MP 1/4 CIS SOC	2		2023-06-08			MY5		193.89	mg	Each	
<b>I</b> anufacturin	g Proccess Informatio	o <b>n</b>													
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 M			-STD-020 MS	SL Rating	Peak Proc	ess Bod	y Temperati	re Max Time at Pe	ak Tempera	ature Numb	per of Reflow Cyc	eles			
SnAgCu		CU	J Alloy	3	3		260		C	30	seco	nds 3			
omments															
TTENTION: M	SL 3 Rated item requires I	Bake and Dry	y Pack (after	electrical test)											
or more informa	tion regarding material co	mposition pl	lease 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).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	19.82	mg	Supplier	Silicon (Si)	7440-21-3		19.82	mg
Die Attach	1.15	mg		Epoxy resin	proprietary data		0.0575	mg
			Supplier	4-Methylhexahydrophthalsureanhydrid	19438-60-9		0.0057	mg
			Supplier	Titanium triisostearoylisopropoxide	61417-49-0		0.0575	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.0575	mg
			Supplier	2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3		0.0575	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0057	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		0.0575	mg
			Supplier	Isobornyl Acrylate	5888-33-5		0.0575	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.7935	mg
Epoxy	1.08	mg	Supplier	Imidazole Addition	68490-66-4		0.324	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.108	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.108	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.108	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.432	mg
Imaging Lens	29.9	mg	Supplier	Sulfur (S)	7704-34-9		0.1495	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.6146	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.6445	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		1.6146	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.6146	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.6146	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		0.1495	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.6146	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		19.8835	mg
Mold Compound	31.52	mg	Supplier	Triphenylphosphine	603-35-0		0.1576	mg
			Supplier	Trimethoxysilylpropanethiol	4420-74-0		0.1576	mg
			Supplier	Oxirane	39817-09-9		6.304	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		6.304	mg
			Supplier	Misc.	Proprietary Data		1.576	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		15.4448	mg

			Supplier	Silica Crystalline (SiO2)	14808-60-7	1.576	mg
Solder Ball	44.2		Supplier	Silver (Ag)	7440-22-4	1.326	mg
			Supplier	Tin (Sn)	7440-31-5	42.653	mg
			Supplier	Copper (Cu)	7440-50-8	0.221	mg
Substrate and Solder Mask	65.98			Epoxy resin	proprietary data	49.8149	mg
			Supplier	Phosphinoxide Derivative	Proprietary Data	0.9897	mg
			Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethylbiphenyl	85954-11-6	1.3196	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6	0.9897	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	10.8867	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	1.9794	mg
Wire Bond - Au	0.24	mg	Supplier	Gold (Au)	7440-57-5	0.24	mg