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.								
	1.1 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 Mater				laterials and	ials and Mfg Information			
Supplier Information												
npany name* Company unique ID				Unique ID Authority				Respo	Response Date*			
onsemi	i							2024-	2024-05-11			
Contact Name	Title - Contact			Ph	Phone - Contact*			Emai	Email - Contact*			
Product-Env-Stewards Product Enviro Compliance				NA			Prod	Product-Env-Stewards@onsemi.com				
Authorized Representative*	orized Representative*  Title - Representative			Phone - Representative*			Emai	Email - Representative*				
Product-Env-Stewards	oduct-Env-Stewards Product Enviro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr I	Mfr Item Number Mfr Item		fr Item Name		Effective Date	Version	Manufacturing Si	te	Weight*	UOM	Unit Type	
ARO: AO-C	30CM1C12SHK R	3 MP 1/3 CIS		2	024-05-11		CP2		57.72	mg	Each	
Manufacturing Process Information												
Terminal Plating / Grid Array Material	Terminal Base A	Alloy J-	STD-020 MSL Ra	ating	Peak Process Body Temperature   Max Time at Peal		Peak Tempe	erature Numbe	er of Reflow Cyc	eles		
SnAgCu	CU Alloy	5			260	C	30	sec	conds 3			
Comments	·	·	·			·						
or more information regarding material composit	on please refer to	nage 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	ed			
Directive 2015/863/EU amending RoHS Directive 2011/65/EU								
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	9.53	mg		Misc.	proprietary data		0.0362	mg
			Supplier	Silicon (Si)	7440-21-3		9.3994	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0943	mg
Die Attach	0.91	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.3413	mg
			Supplier	Ethylene Glycol	107-21-1		0.0091	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.0273	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.1911	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.3413	mg
Electrode	0.97	mg	Supplier	Titanium (Ti)	7440-32-6		0.0006	mg
			В	Nickel (Ni)	7440-02-0		0.5775	mg
			Supplier	Gold (Au)	7440-57-5		0.0233	mg
			Supplier	Copper (Cu)	7440-50-8		0.0146	mg
			Supplier	Aluminum (Al)	7429-90-5		0.354	mg
Glass Lid /Cap	40.57	mg	Supplier	Boron Trioxide (B2O3)	1303-86-2		5.7609	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		20.285	mg
			Supplier	Barium Monoxide (BaO)	1304-28-5		9.7368	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		4.4627	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		0.0406	mg
			В	Arsenic Trioxide (As2O3)	1327-53-3		0.284	mg
Lid Attach	0.01	mg		Photoinitiator	proprietary data		0.0025	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.0075	mg
Passivation	0.91	mg	Supplier	Pentaerythritol triacrylate	3524-68-3		0.1365	mg
			Supplier	2-(2-methoxypropoxy)propanol	34590-94-8		0.091	mg
			Supplier	Epoxy Phenol Novolak Resin	28064-14-4		0.091	mg
			Supplier	9-Phenylacridine	602-56-2		0.0455	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.546	mg
Solder Ball	0.71	mg	Supplier	Silver (Ag)	7440-22-4		0.0543	mg
			Supplier	Tin (Sn)	7440-31-5		0.6397	mg
			Supplier	Copper (Cu)	7440-50-8		0.016	mg
Substrate and Solder Mask	4.11	mg	Supplier	Silica crystalline	14808-60-7, 14464- 46-1		0.411	mg
			Supplier	Cured Resin of Solder Mask	Proprietary Data		1.9523	mg

Supplier	Bismaleimide Triazine resin	Proprietary Data	1.7468 mg	g