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	1.1 IPC Web Site for Information on IPC-1752 Standard Form T Distribution IPC-175x Distribution IPC-175x Property Inc.				Form Type Distribute	e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg						fg Inf	ormation		
upplier	Information															
Company name* Company unique ID				ique ID		Unique ID Authority					Response Date*					
nsemi													2023-06-08			
ontact Na	ame		Title - Contac	Title - Contact			Phone - Contact*				Email - Contact*					
Product-E	nv-Stewards		Product Enviro Compliance			]	NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Tit				Fitle - Representative			Phone - Representative*				Email - Representative*					
Product-E	nv-Stewards	Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
	Requester Item Number	n Number Mfr Item Name				Effective Da	ate Ve	Version M		Manufacturing Site		Veigh	ght* UOM	UOM	Unit Type	
	AR0330CM1C00SHA 3 MP 1/3 CIS A0-DP1			3 MP 1/3 CIS		2023-06-08		TA1		1	1153.99		mg	Each		
Ianufac	cturing Proccess Information	n						·								
1	Terminal Plating / Grid Array Material		Terminal Base A	l Base Alloy J-STE		SL Rating	Peak Process		s Body Temperature Ma		Time at Peak	k Temperature		Number of Reflow Cycles		
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			4			260	C		30		secono	seconds 3		3	
comments					·	·			<u> </u>							
or more i	nformation regarding material co	mposition	please 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
Ceramic Substrate	648.43	mg	Supplier	Cobalt (Co)	7440-48-4		0.9726	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7		16.2108	mg
			Supplier	Tungsten (W)	7440-33-7		1.6211	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		12.9686	mg
			Supplier	Calcium Oxide (CaO)	60873-85-0		2.5937	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.5937	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		589.2607	mg
			В	Nickel (Ni)	7440-02-0		0.6484	mg
			Supplier	Gold (Au)	7440-57-5		1.9453	mg
			Supplier	Thallium (Tl)	82870-81-3		0.1621	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		19.4529	mg
Die	178.41	mg		Misc.	proprietary data		0.678	mg
			Supplier	Silicon (Si)	7440-21-3		175.9658	mg
			Supplier	Aluminum (Al)	7429-90-5		1.7662	mg
Die Attach	2.42	mg	Supplier	Silver (Ag)	7440-22-4		1.694	mg
			Supplier	Epoxy resins	129915-35-1		0.484	mg
			Supplier	Acrylic resins	Proprietary Data		0.0605	mg
			Supplier	Gamma-Butyrolactone	96-48-0		0.1815	mg
Imaging Lens	312.5	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		15.625	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		15.625	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		15.625	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		15.625	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.5625	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		15.625	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		15.625	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		217.1875	mg
Lid Attach	7.73	mg		Other Additive Agents	proprietary data		1.1595	mg
			Supplier	Photoinitiator	Proprietary Data		2.6282	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		3.9423	mg
Marking Ink	4.27	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.5337	mg
			Supplier	1-Methoxy-2-propyl acetate (MPA)	108-65-6		1.0675	mg
			Supplier	Butylglycol Acetate	112-07-2		1.0675	mg

			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	0.5337	mg
			Supplier	Cyclohexanone	108-94-1	0.5337	mg
			Supplier	Xylene	1330-20-7	0.5337	mg
Wire Bond - Au	0.23	mg	Supplier	Gold (Au)	7440-57-5	0.23	mg