ASSOCIATION ELECTRONICS	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under beindustriles international and Pan-American copyright conventions.				under both	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.										
1752-21.1		IPC Web Site for Information on IPC-1752 Standard F				Form Type Distribute	· *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information								
Supplier	Information	n														
Company name* Company unique ID						Unique ID Aut	nority			Resp	Response Date*					
onsemi												2024-	2024-05-09			
Contact Na	ame			Title - Contac	et			Phone - Contact*				Emai	Email - Contact*			
Product-E	Env-Stewards			Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com			
Authorized	d Representativ	⁄e*		Title - Representative				Phone - Representative*				Emai	Email - Representative*			
Product-Env-Stewards				Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item			Number	Jumber Mfr Item Name			Effective Date	Version	n N	Manufacturing Site		Weig	ht*	UOM	Unit Type
		AR0330CM1C00SHA 3 MP 1/3 CIS A0-DP					2024-05-09 TA1				1153.99 mg Each		Each			
Manufac	cturing Proc	cess Information	1										•			
	Terminal Plating / Grid Array Material		ıl T	erminal Base A	minal Base Alloy J-S		L Rating	ing Peak Proces		s Body Temperature Max Time at Po		t Peak Tempe	k Temperature Num		Number of Reflow Cycles	
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)) (no C	CU Alloy	y 4			260 C		30	sec	seconds				
Comments			•			•		•		•	•					
						_					_					
For more i	nformation reg	garding material com	position	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an		
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 to the identified part, the company's remedies for issues that arise respects the company is the company that the company tha	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble 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 e at least as comprehensive as the hts 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	cceptance *	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 recruired 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
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