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 lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.														
1752-21.1	IDC Wab Site for Information on IDC 1752 Standard Form Type				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information												
Supplier	Informat	tion																
Company	name*			Company uni	que ID			Unique ID A	Author	ity			Respons	e Dat	e*			
onsemi													2024-05	-05				
Contact Na	ame			Title - Contac	t		:	Phone - Contact*					Email -	Email - Contact*				
Product-E	Env-Steward	s		Product Envir	o Compliance			NA					Produc	t-Env-	-Steward	ls@onsemi.co	o <b>m</b>	
Authorized Representative*				Title - Repres	itle - Representative			Phone - Representative*				Email - Representative*						
Product-E	Env-Steward	s		Product Envir	o Compliance			NA					Produc	t-Env-	v-Stewards@onsemi.com			
	Requester I	Requester Item Number Mfr Item		Number Mfr Item Name			Effective D	Date	Version	Mai	Manufacturing Site		Weigh	t*	UOM	Unit Type		
	AR0237 0-DR		CSSC12SPRA	SC12SPRA 2MP 1/3 CIS SO			2024-05-05	5		TA	TA1		264.22		mg	Each		
Ianufac	cturing Pr	occess Informatio	n															
	Terminal Pla	nting / Grid Array Mater	ial T	erminal Base A	Alloy	J-STD-020 MS	L Rating	Peak P	rocess	Body Tempe	rature	Max Time at Pea	k Temperat	ure l	Number o	of Reflow Cyc	cles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy		4		260		С		30		ds 3	3					
Comments																		
or more i	nformation	regarding material coi	nposition	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 the company is the co	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	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 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	57.0	mg		Misc.	proprietary data		0.2166	mg
			Supplier	Silicon (Si)	7440-21-3		56.2191	mg
			Supplier	Aluminum (Al)	7429-90-5		0.5643	mg
Die Attach	2.5	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.9375	mg
			Supplier	Ethylene Glycol	107-21-1		0.025	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.075	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.525	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.9375	mg
Imaging Lens	60.5	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		3.025	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		3.025	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		3.025	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		3.025	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.3025	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		3.025	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		3.025	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		42.0475	mg
Lid Attach	2.6	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.8216	mg
			Supplier	Filler (SiO2)	68909-20-6		0.1352	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.8216	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.8216	mg
Mold Compound-Black	54.0	mg		Phenolic Resin	proprietary data		8.1	mg
			Supplier	Oxirane	39817-09-9		8.1	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.62	mg
			Supplier	Carbon Black (C)	1333-86-4		0.54	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		34.56	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.08	mg
Substrate and Solder Mask	87.4	mg	Supplier	Acetophenone	98-86-2		1.713	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		19.3941	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		1.1449	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.1537	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2884	mg

			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.2884	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	3.4261	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data	8.74	mg
			Supplier	Copper (Cu)	7440-50-8	42.389	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	8.8624	mg
Wire Bond - Au	0.22	mg	Supplier	Gold (Au)	7440-57-5	0.22	mg