ASSOCIATION CONNECTIN	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.									
752-21.1	IPC Web Site for Information on IPC 1752 Standard Form Type				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information									
Supplier Inform	nation														
Company name* Company unique ID					τ	Unique ID Authority					Response Date*				
nsemi												2024-05-09			
Contact Name		Title	Title - Contact			1	Phone - Contact*					Email - Contact*			
Product-Env-Stewa	ards	Prod	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			1	Phone - Representative*			Email - Representative*					
Product-Env-Stewards			duct Enviro	o Compliance	NA Product-Env-Stewards@onsemi.co					m					
Requeste	Requester Item Number Mfr Iten					Effective Date	e Date Version Manufacturing Site		g Site	W	eight*	UOM	Unit Type		
		AR0331SRSC E0-DPBR	COOXUE	3.1 MP 1/3 CIS			2024-05-09		ſ	ſWU		21	4.83	mg	Each
Ianufacturing	Proccess Information	1													
Terminal Plating / Grid Array Material Terminal Base Alloy			lloy J	-STD-020 MSL	Rating	Peak Proc	ess Body	Temperatu	re Max Time	e at Peak 🛙	Femperatur	e Num	ber of Reflow Cyc	les	
SnAgCu		CU All	lloy	4	ļ		260		С	30		seconds	3		
omments															
or more information	on regarding material com	position please	se refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth	
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all
Exemption List Version	EL-2011/534/EU				
Declaration Signature					
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the
Supplier Digital Signature Ra	stislav Drska	Le			

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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	37.8	mg		Misc.	proprietary data		0.1436	mg
			Supplier	Silicon (Si)	7440-21-3		37.2821	mg
			Supplier	Aluminum (Al)	7429-90-5		0.3742	mg
Die Attach	4.87	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		1.8262	mg
			Supplier	Ethylene Glycol	107-21-1		0.0487	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.1461	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		1.0227	mg
			Supplier	Formaldehyde Polymer	9003-36-5		1.8262	mg
maging Lens	38.3	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.915	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.915	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		1.915	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.915	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.1915	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.915	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.915	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		26.6185	mg
Lid Attach	3.85	mg	Supplier	2-phenoxy ethyl acrylate	48145-04-6		1.7325	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.77	mg
			Supplier	Filler (SiO2)	68909-20-6		0.4812	mg
			Supplier	Acrylate Oligomer	Proprietary Data		0.0192	mg
			Supplier	Curative	Proprietary Data		0.077	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.77	mg
Iold Compound-Black	49.6	mg		Phenolic Resin	proprietary data		7.44	mg
			Supplier	Oxirane	39817-09-9		7.44	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.488	mg
			Supplier	Carbon Black (C)	1333-86-4		0.496	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		31.744	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.992	mg
older Ball	34.83	mg	Supplier	Silver (Ag)	7440-22-4		1.0449	mg
			Supplier	Tin (Sn)	7440-31-5		33.611	mg
			Supplier	Copper (Cu)	7440-50-8		0.1742	mg
Substrate and Solder Mask	45.2	mg	Supplier	Fiber Glass (SiO2)	65997-17-3		9.5779	mg

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).

			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6	0.5921	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	0.1492	mg
			Supplier	Acetophenone Derivative	Proprietary Data	0.8859	mg
			Supplier	Carbon Black (C)	1333-86-4	0.1492	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.1492	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2	4.3934	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	1.7718	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data	1.5187	mg
			Supplier	Copper (Cu)	7440-50-8	21.4293	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	4.5833	mg
Wire Bond - Au	0.38	mg	Supplier	Gold (Au)	7440-57-5	0.38	mg