IPC ASSOCIATION C	© Copyright 2005. IP	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			under both le				s within the manufa er level materials f					
752-21.1				Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					on			
upplier I	Information													
Company name* Company unique ID			ique ID		Unique ID Authority			Respon	Response Date*					
nsemi										2023-0	2023-06-08			
Contact Name Title - C			Title - Conta	ct		Pl	Phone - Contact*			Email	Email - Contact*			
Product-Env-Stewards Prod			Product Enviro Compliance		N	NA			Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Re			Title - Repres	sentative	ntative F			Phone - Representative*			Email - Representative*			
Product-Env-Stewards Product Enviro Compli				ro Compliance		NA Product-Env-Stewards@onsemi.com					om			
I	Requester Item Number	Mfr Item	Number	Mfr Item Name		I	Effective Date	Version	Manufacturing Site	e	Weight*	UOM	Unit Type	
		AR0331S E0-DPBR	RSC00XUE	3.1 MP 1/3 CIS		2	2023-06-08		TWU		214.83	mg	Each	
lanufact	uring Proccess Informat	ion												
Т	Terminal Plating / Grid Array Material Te		erminal Base A	Alloy	J-STD-020 MSL R		Peak Proces	Peak Process Body Temperature Max Time at Pea		Peak Tempera	ature Numb	er of Reflow Cy	cles	
S	SnAgCu		U Alloy	Alloy 4			260 C 30		30	seconds 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							
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.										
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	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
Imaging 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
Mold 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
Solder 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

			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