IPC ASSOCIATION CONNE	Material Compe © Copyright 2005. II international and Pan	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		IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					rials and N	Ifg Informat	ion		
Supplier Info										,		, , , , , ,			
Company name* Company unique ID					Unique ID Authority				Respon	Response Date*					
onsemi											2023-0	2023-06-08			
Contact Name Ti				Title - Contact			Phone - Contact*				Email ·	Email - Contact*			
Product-Env-St	ewards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Tit				Title - Representative			Phone - Representative*				Email -	Email - Representative*			
Product-Env-Stewards Product Enviro Compliance						NA				Product-Env-Stewards@onsemi.com					
Requ	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Date Version Manufacturing S		Manufacturing Site		Weight*	UOM	Unit Type			
		AR0230A A0-DRB		2 MP 1/3 CIS			2023-06-08			MY5		257.51	mg	Each	
Ianufacturi	ng Proccess Informat	tion													
Termi	Terminal Plating / Grid Array Material Terminal Base Alloy J			J-STD-020 MS	L Rating	Peak Process Body Temperature Max Time at Peak Temperature Number of Reflow Cycles						cles			
SnAgCu		CU Alloy 3			260	60 C 30		seco	nds 3						
omments															
TTENTION: N	MSL 3 Rated item requires	s Bake and D	ry Pack (after	electrical test)											
or more inform	nation regarding material	composition 1	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).											
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 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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the 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	35.45	mg		Misc.	proprietary data		0.1347	mg
			Supplier	Silicon (Si)	7440-21-3		34.9643	mg
			Supplier	Aluminum (Al)	7429-90-5		0.351	mg
Die Attach	1.66	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.6225	mg
			Supplier	Ethylene Glycol	107-21-1		0.0166	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.0498	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.3486	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.6225	mg
Imaging Lens	60.6	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		3.1894	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		3.1894	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		3.1894	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.3194	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		3.1894	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		3.1894	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		44.3337	mg
Lid Attach	1.41	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.4456	mg
			Supplier	Filler (SiO2)	68909-20-6		0.0733	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.4456	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.4456	mg
Mold Compound-Black	41.36	mg		Phenolic Resin	proprietary data		6.204	mg
			Supplier	Oxirane	39817-09-9		6.204	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.2408	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4136	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		26.4704	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.8272	mg
Solder Ball	38.86	mg	Supplier	Silver (Ag)	7440-22-4		1.1658	mg
			Supplier	Tin (Sn)	7440-31-5		37.4999	mg
			Supplier	Copper (Cu)	7440-50-8		0.1943	mg
Substrate and Solder Mask	77.49	mg	В	Nickel (Ni)	7440-02-0		3.0996	mg
			Supplier	Gold (Au)	7440-57-5		0.31	mg
			Supplier	Cured Resin of Solder Mask	Proprietary Data		18.5976	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data		46.494	mg

			Supplier	Copper (Cu)	7440-50-8	8.9888	mg
Wire Bond - Au	0.68	mg	Supplier	Gold (Au)	7440-57-5	0.68	mg