ASSOCIATION CONNI LECTRONICS INDUS	© Converight 2005 IP	C, Bannockb	claration ourn, Illinois. A opyright conve	all rights reserved untions.		ument is a	a declaration en	on of the su ncompasses	bstances all lowe	within the manufactu er level materials for v	rer listed which the	item. Note: i manufacturer	f the item is an as has engineering	ssembly with lov responsibility.	
752-21.1		IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Typ Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materia					rials and M	als and Mfg Information			
upplier Info	formation														
Company name*			Company unique ID			Uniqu	Unique ID Authority					Response Date*			
semi												2023-06-08			
ontact Name			Title - Contact			Phone	Phone - Contact*					Email - Contact*			
roduct-Env-St	Stewards		Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
Authorized Representative* Tit				Title - Representative			Phone - Representative*				Email -	Email - Representative*			
Product-Env-Stewards P			Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
Requ	Requester Item Number Mfr Item		n Number Mfr Item Name			Effec	ctive Date	Version	1	Manufacturing Site		Weight*	UOM	Unit Type	
				R OPEN; Single phase l sensor method (open	2023	3-06-08	5-08 PHM			80.0	mg	Each			
lanufacturi	ring Proccess Informati	on													
Term	Terminal Plating / Grid Array Material		Γerminal Base Alloy J-ST		-STD-020 MSL Rating]	Peak Process Body Ten		emperatu	perature Max Time at Peak Te		ture Numb	er of Reflow Cy	cles	
contains Bi		CU Alloy 3			1	260 C		С	30 seco		nds 3				
omments															
TTENTION:	MSL 3 Rated item requires	Bake and D	ry Pack (after	electrical test)											

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 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 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 have provided as part of that agreement, will be the sole and exclusivesource of 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 contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
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	ogeneous Material Weight Unit of Measure Level Subs		Substance	CAS	Exempt	Weight	Unit of Measure	
Die	2.94	mg	Supplier	Silicon (Si)	7440-21-3		2.9291	mg
			Supplier	Polyimide	Proprietary Data		0.0109	mg
Die Attach	0.6	mg	Supplier	Silver (Ag)	7440-22-4		0.4082	mg
			Supplier	Epoxy resins	129915-35-1		0.1735	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0131	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0052	mg
Lead Frame	6.56	mg	Supplier	Zinc (Zn)	7440-66-6		0.0085	mg
			Supplier	Iron (Fe)	7439-89-6		0.1542	mg
			Supplier	Copper (Cu)	7440-50-8		6.3921	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0052	mg
Mold Compound-Black	68.6	mg		Phenolic Resin	proprietary data		3.43	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.9208	mg
			Supplier	Carbon Black (C)	1333-86-4		0.686	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		2.058	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		54.88	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		5.488	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1372	mg
Plating	1.13	mg	В	Bismuth (Bi)	7440-69-9		0.0068	mg
			Supplier	Tin (Sn)	7440-31-5		1.1232	mg
Wire Bond - Cu	0.17	mg	Supplier	Copper (Cu)	7440-50-8		0.17	mg