52-21.1 ipplier Info			PC-1752 Stone					eompasses t	all lower	level materials for wh			ias engineering	esponsionity.	
ıpplier Info		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 Materials and Mfg In					fg Informatio	n			
	ormation														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
semi												2023-06-08			
ntact Name			Title - Contact			Phone - Contact*					Email - Contact*				
oduct-Env-St	ewards		Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
thorized Repr	resentative*		Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Requ	Requester Item Number Mfr Item Number LV88551JA-		Number	Mfr Item Name		Effective Date Version Manufa		Manufacturing Site	Weight*		UOM	Unit Type			
			JA-AH	AH 1PH PRE SENSOR CLOSE; Single phase pre-driver with hall sensor method (closed loop speed control)		2023-06-08 PHM		НМ	8	80.71	mg	Each			
anufacturii	ng Proccess Informa	tion													
Terminal Plating / Grid Array Material T		Γerminal Base Alloy J-S		-STD-020 MSL Rating	Peak Process Body		s Body Ten	dy Temperature Max Time at Peak		Temperati	ure Numbe	r of Reflow Cyc	les		
contains Bi			CU Alloy 3			260 C 30			seconds 3						
mments															
TENTION: M	MSL 3 Rated item require	s 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).											
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
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	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.86	mg	Supplier	Silicon (Si)	7440-21-3		1.8462	mg
			Supplier	Polyimide	Proprietary Data		0.0138	mg
Die Attach	0.19	mg	Supplier	Silver (Ag)	7440-22-4		0.1349	mg
			Supplier	Epoxy resins	129915-35-1		0.0551	mg
Lead Frame	28.01	mg	Supplier	Silver (Ag)	7440-22-4		0.24	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0555	mg
			Supplier	Iron (Fe)	7439-89-6		0.7221	mg
			Supplier	Copper (Cu)	7440-50-8		26.9507	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0417	mg
Mold Compound-Black	48.87	mg		Epoxy Phenol Resin	proprietary data		5.8644	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1955	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.344	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.4661	mg
Plating	1.49	mg	В	Bismuth (Bi)	7440-69-9		0.0089	mg
			Supplier	Tin (Sn)	7440-31-5		1.4811	mg
Wire Bond - Au	0.29	mg	Supplier	Gold (Au)	7440-57-5		0.29	mg