ISSOCIATION CON LECTRONICS IND	© Converight 2005 IP	C, Bannockb	claration ourn, Illinois. A opyright conve	all rights reserved untions.		the declarat	laration ion enco	of the subsompasses a	stances v 11 lower	within the manufactur level materials for wl	er listed it hich the m	tem. Note: if nanufacturer	the item is an as has engineering	sembly with low 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					als and Mfg Information			
upplier In	formation													
Company name*			Company unique ID			Unique ID Authority					Response Date*			
semi											2023-06-08			
ontact Name	2		Title - Contact			Phone - Contact*					Email - Contact*			
roduct-Env-S	-Stewards		Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
uthorized Re	epresentative*		Title - Representative			Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Red	equester Item Number	LB11620T-TLM-H 3PH PRE S driver with		n Number Mfr Item Name			Date \	ate Version Manufacturing Site		1	Weight*	UOM	Unit Type	
				3PH PRE SENSO driver with hall se speed control)	R OPEN; Three phase pre- nsor method (open loop	e- 2023-06-08 PF		PHM 8		80.0	mg	Each		
lanufactur	ring Proccess Informati	on												
Terr	Terminal Plating / Grid Array Material		Terminal Base Alloy J-S		-STD-020 MSL Rating	Peak Process Bo		Body Temperature Max Time at Peak		Temperat	ure Numb	er of Reflow Cyc	eles	
contains Bi		CU Alloy 3		}	260 C		2	30 seco		ds 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 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 paragraph. If the Company and the Supplier 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 have not independently verified 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 liability and the Company's remedies for issues that arise regarding information the Supplier p											
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	4.19	mg	Supplier	Silicon (Si)	7440-21-3		4.159	mg
			Supplier	Polyimide	Proprietary Data		0.031	mg
Die Attach	1.04	mg	Supplier	Silver (Ag)	7440-22-4		0.7076	mg
			Supplier	Epoxy resins	129915-35-1		0.3008	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0227	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0089	mg
Lead Frame	24.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.0456	mg
			Supplier	Iron (Fe)	7439-89-6		0.6216	mg
			Supplier	Copper (Cu)	7440-50-8		23.2992	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0336	mg
Mold Compound-Black	49.21	mg		Epoxy Phenol Resin	proprietary data		5.9052	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1968	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.6317	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.4763	mg
Plating	1.1	mg	В	Bismuth (Bi)	7440-69-9		0.0066	mg
			Supplier	Tin (Sn)	7440-31-5		1.0934	mg
Wire Bond - Au	0.46	mg	Supplier	Gold (Au)	7440-57-5		0.46	mg