IPC ASSOCIATION ELECTRONICS	Material Cor © Copyright 200 industries international and	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 lowe 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					ials and Mfg Information				
upplier	Information						<u> </u>									
Company name* Company u				uny unique ID			Unique ID Authority					Response Date*				
nsemi												2023-06-08				
Contact Na	me	Title - Contact			I	Phone - Contact*					Email - Contact*					
Product-Er	nv-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
uthorized	Representative*	Title - Representative			I	Phone - Representative*					Email - Representative*					
Product-Er	nv-Stewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com					
	Requester Item Number	Mfr Iten	Mfr Item Number M		Mfr Item Name 3PHASE MOTOR PRE-DRIVER		Effective Date	e Version Man		Manufacturing	Ianufacturing Site		eight*	UOM	Unit Type	
		LB11600JV-TLM-E 3PHASE MC		3PHASE MOTOR			2023-06-08 PHM		РНМ		2	0.00	mg	Each		
Ianufact	turing Proccess Infor	nation													·	
Т	Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MS		SL Rating	Peak Process Body Ten		dy Temperati	perature Max Time at Peak T		Temperatu	re Num	ber of Reflow Cyc	eles	
contains Bi			CU Alloy 3			260	C		30		seconds 3					
omments																
LIENTIC	ON: MSL 3 Rated item requ	iires Bake and I	Ory Pack (afte	r electrical test)												
or more in	nformation regarding mate	rial composition	please refer t	o 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).											
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	5.52	mg	Supplier	Silicon (Si)	7440-21-3		5.4996	mg
			Supplier	Polyimide	Proprietary Data		0.0204	mg
Die Attach	1.13	mg	Supplier	Silver (Ag)	7440-22-4		0.7689	mg
			Supplier	Epoxy resins	129915-35-1		0.3268	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0246	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0097	mg
Lead Frame	59.75	mg	Supplier	Zinc (Zn)	7440-66-6		0.0777	mg
			Supplier	Iron (Fe)	7439-89-6		1.4041	mg
			Supplier	Copper (Cu)	7440-50-8		58.2204	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0478	mg
Mold Compound-Black	130.76	mg		Epoxy Phenol Resin	proprietary data		15.6912	mg
			Supplier	Carbon Black (C)	1333-86-4		0.523	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		110.6229	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		3.9228	mg
Plating	2.13	mg	В	Bismuth (Bi)	7440-69-9		0.0128	mg
			Supplier	Tin (Sn)	7440-31-5		2.1172	mg
Wire Bond	0.71	mg	Supplier	Palladium (Pd)	7440-05-3		0.0071	mg
			Supplier	Gold (Au)	7440-57-5		0.7029	mg