	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				under both	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.										
1752-21.1	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 Materials a					ials and N	and Mfg Information				
Supplier	Information															
Company r	name*	Company unique ID			Unique ID Authority					Response Date*						
onsemi												2023-0	2023-06-08			
Contact Na	me	Title - Contact			Phone - Contact*					Email ·	Email - Contact*					
Product-E	nv-Stewards	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com						
Authorized	Representative*	Title - Representative			Phone - Representative*				Email - Representative*							
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
	Requester Item Number	Number Mfr Item Name				Effective	Date	Date Version Man		Aanufacturing Site	aring Site		UOM	Unit Type		
	LB11620T-TLM-E			3PH PRE SENSOR OPEN ; Three phase pre- driver with hall sensor method (open loop speed control)			2023-06-	08		Р	РНМ		80.0	mg	Each	
Manufac	turing Proccess Information	ı														
- -	Terminal Plating / Grid Array Materia	Ferminal Base Alloy J-STD-020 MSI			L Rating	Peak Process Body Temperature Max T		e Max Time at Peak	k Temperature Number of Reflow Cycles		cles					
	contains Bi CU			U Alloy 3			260 C 30			seconds 3						
Comments																
ATTENTIO	ON: MSL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)												
For more i	nformation regarding material com	position p	please refer to	page 3												

RoHS Material Composition Declaration				Declaration Type *	Detailed						
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, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe v others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	on above	Supplier Acceptance	* Accepted							
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav Drska	Le									

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.

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		Brominated epoxy resin	proprietary data		0.4921	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.3937	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.4921	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4921	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.3364	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		5.9052	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0984	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