ASSOCIATION CON ELECTRONICS IND	Material Composit © Copyright 2005. IPC, J international and Pan-An	Bannockb	urn. Illinois. A	ll rights reserved untions.	inder both	This docum level parts,	ent is a declar the declaration	ation of 1 encom	the substance the substance and a substance the substance and a substance and a substance and a substance and a	es within the manufa ver level materials for	cturer listed r which the	l item. Note: if manufacturer	the item is an a has engineering	ssembly with lower responsibility.	
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				Form Type Distribute	*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials					s and Mfg Information			
Supplier In	formation														
Company name*			Company unique ID			Unique ID Authority				Respo	Response Date*				
onsemi										2023-0	2023-06-08				
Contact Name		Title - Contact			Phone - Contact*				Email	Email - Contact*					
Product-Env-	Stewards	Product Enviro Compliance			NA				Prod	Product-Env-Stewards@onsemi.com					
Authorized Re	epresentative*	Title - Representative			Phone - Representative*			Email	Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com					
Red	Requester Item Number Mfr Item Numb LB11923V-TLN		n Number Mfr Item Name				Effective Da	ite Ve	ersion	Manufacturing Site		Weight*	UOM	Unit Type	
			V-TLM-E	E 3PH PRE SENSOR CLOSE ; Three phase pre-driver with hall sensor method (closed loop speed control)			2023-06-08 PHM			350.0	mg	Each			
Manufactur	ring Proccess Information	1													
Terr	Terminal Plating / Grid Array Material			Ferminal Base Alloy J-STD-020 M		Rating	Peak Process Body Temperature Max		ure Max Time at P	eak Tempe	rature Numbe	er of Reflow Cy	cles		
contains Bi CU Alloy				3	260 C 30			30	seconds 3						
Comments															
ATTENTION:	: MSL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)											
for more infor	rmation regarding material com	position]	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(Pb), Mercury (Hg), Hexavalent Chror	S 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 , Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl alate (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 y 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 co 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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.											
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	6.19	mg	Supplier	Silicon (Si)	7440-21-3		6.1671	mg
			Supplier	Polyimide	Proprietary Data		0.0229	mg
Die Attach	1.3	mg	Supplier	Silver (Ag)	7440-22-4		0.8845	mg
			Supplier	Epoxy resins	129915-35-1		0.376	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0283	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0112	mg
Lead Frame	123.4	mg	Supplier	Silver (Ag)	7440-22-4		0.3949	mg
			Supplier	Zinc (Zn)	7440-66-6		0.2345	mg
			Supplier	Iron (Fe)	7439-89-6		3.1961	mg
			Supplier	Copper (Cu)	7440-50-8		119.4018	mg
			Supplier	Phosphorus (P)	7723-14-0		0.1728	mg
Iold Compound-Black	214.36	mg		Epoxy resin	proprietary data		21.436	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		16.077	mg
			Supplier	Carbon Black (C)	1333-86-4		1.0718	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		175.7752	mg
lating	3.85	mg	В	Bismuth (Bi)	7440-69-9		0.0231	mg
			Supplier	Tin (Sn)	7440-31-5		3.8269	mg
Wire Bond - Au	0.9	mg	Supplier	Gold (Au)	7440-57-5		0.9	mg