	Material Composit © Copyright 2005. IPC, International and Pan-Am	Bannockb	urn, Illinois, A	ll rights reserved untions.	under both	This docume level parts, t	ent is a decla he declaratio	ration of t n encomp	the substance passes all low	s within the manufactur er level materials for w	rer listed	item. Note: if manufacturer	the item is an a has engineering	ssembly with lower responsibility.
1752-21.1					Form Type * Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				als and Mfg Information				
Supplier I	Information													
Company name* Co				Company unique ID			Unique ID Authority				Response Date*			
onsemi											2023-06-08			
Contact Nan	ne	Title - Contact			Phone - Contact*				Email ·	Email - Contact*				
Product-En	v-Stewards	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Authorized 1	Representative*	Title - Representative			Phone - Representative*			Email - Representative*						
Product-En	v-Stewards	Product Enviro Compliance			NA			Product-Env-Stewards@onsemi.com						
I	Requester Item Number	Number Mfr Item Name				Effective D	ate Ver	rsion	Manufacturing Site		Weight*	UOM	Unit Type	
	LB11870-		-TRM-E 3PH DRV SENSOR CLOSE ; Three phase driver with hall sensor method (closed loop speed control)				2023-06-08			РНМ		950.0	mg	Each
Manufact	uring Proccess Information	ı												
Т	Terminal Plating / Grid Array Material			erminal Base Alloy J-STD-020 M		Rating	Peak Process Body Temperatur		are Max Time at Peak Tempera		perature Number of Reflow Cycles		cles	
contains Bi CU Alloy			3			260 C 30			seconds 3					
Comments														
ATTENTIO	N: MSL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)										
For more int	formation regarding material com	position j	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), Dibutyl 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 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	12.2	mg	Supplier	Silicon (Si)	7440-21-3		12.1097	mg
			Supplier	Polyimide	Proprietary Data		0.0903	mg
Die Attach	0.98	mg	Supplier	Silver (Ag)	7440-22-4		0.833	mg
			Supplier	Epoxy resins	129915-35-1		0.1323	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.0147	mg
Lead Frame	380.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.722	mg
			Supplier	Iron (Fe)	7439-89-6		9.842	mg
			Supplier	Copper (Cu)	7440-50-8		368.904	mg
			Supplier	Phosphorus (P)	7723-14-0		0.532	mg
Iold Compound-Black	469.44	mg		Brominated epoxy resin	proprietary data		4.6944	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		3.7555	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		4.6944	mg
			Supplier	Carbon Black (C)	1333-86-4		4.6944	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		394.3296	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		56.3328	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.9389	mg
lating	84.93	mg	В	Bismuth (Bi)	7440-69-9		0.5096	mg
			Supplier	Tin (Sn)	7440-31-5		84.4204	mg
Wire Bond - Au	2.45	mg	Supplier	Gold (Au)	7440-57-5		2.45	mg