ASSOCIATION CO	Material Compo © Copyright 2005. II International and Pan	PC, Bannockb	urn, Illinois. A	ll rights reserved untions.	nder both	This docume level parts, t	ent is a declarat he declaration e	ion of the s encompasse	ubstances s all lower	within the manufactur r level materials for w	rer listed it hich the m	em. Note: i anufacture	f the item is an as r has engineering	sembly with lower 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 Materia					als and Mfg Information			
Supplier I	nformation													
Company name*			Company unique ID				Unique ID Authority				Response Date*			
onsemi										2024-05-05				
Contact Nam	ne	Title - Contact				Phone - Contact*				Email - Contact*				
Product-Env	v-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized H	Representative*	Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env	v-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
R	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site			Weight*	UOM	Unit Type	
		LB1948MC-AH H-bridge motor driv		river		2024-05-05 PHM			5	30.0	mg	Each		
Aanufactu	uring Proccess Informat	tion												
Te	Terminal Plating / Grid Array Material Te			erminal Base Alloy J-STD-020 MSI		L Rating	Peak Process Body Temperature		ure Max Time at Peak Tempera		nperature Number of Reflow Cycles		eles	
contains Bi CU Alloy			CU Alloy	3 21				260 C 30			seconds 3			
omments														
TTENTIO	N: MSL 3 Rated item requires	s Bake and D	ry Pack (after	electrical test)										
or more inf	formation regarding material	composition	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), Disobutyl 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	ances per the definitio	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	3.64	mg	Supplier	Silicon (Si)	7440-21-3		3.6265	mg
			Supplier	Polyimide	Proprietary Data		0.0135	mg
Die Attach	0.29	mg	Supplier	Silver (Ag)	7440-22-4		0.2218	mg
			Supplier	Epoxy resins	129915-35-1		0.0681	mg
Lead Frame	27.78	mg	Supplier	Silver (Ag)	7440-22-4		0.1861	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0333	mg
			Supplier	Iron (Fe)	7439-89-6		0.6528	mg
			Supplier	Copper (Cu)	7440-50-8		26.8994	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0083	mg
Mold Compound-Black	47.54	mg		Epoxy Phenol Resin	proprietary data		5.7048	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1902	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		40.2188	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.4262	mg
lating	0.68	mg	В	Bismuth (Bi)	7440-69-9		0.0041	mg
			Supplier	Tin (Sn)	7440-31-5		0.6759	mg
Wire Bond - Cu	0.07	mg	Supplier	Copper (Cu)	7440-50-8		0.07	mg

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).