ASSOCIATION CONNECT	Material Compos © Copyright 2005. IPC international and Pan-A	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 lower 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 Typ http://www.ipc.org/IPC-175x Form Typ Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
Supplier Infor	rmation														
Company name*			Company ur	Company unique ID			Unique ID Authority				Response Date*				
nsemi											2023-00	2023-06-08			
Contact Name		Title - Contact]	Phone - Contact*				Email - Contact*					
Product-Env-Ste	wards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Repre	esentative*	Title - Representative			1	Phone - Representative*				Email - Representative*					
Product-Env-Ste	wards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	Requester Item Number Mfr Ite		tem Number Mfr Item Name				Effective Date Version Manufacturing S		Manufacturing Site		Weight*	UOM	Unit Type		
		LB1843V-TLM-E H-bridge motor dri		river		2023-06-08		PHM			100.0	mg	Each		
	g Proccess Information														
Terminal Plating / Grid Array Material		erial T			J-STD-020 M	SL Rating		Peak Process Body Tempera		re Max Time at Peal	C Tempera	ture Numb	er of Reflow Cyc	eles	
contains Bi			CU Alloy 3			260	C 30		seco	nds 3					
omments															
TTENTION: M	SL 3 Rated item requires 1	Bake and D	ry Pack (afte	er electrical test)											
or more informa	ation regarding material co	omposition j	please refer t	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to su											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	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											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recruired by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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	4.46	mg	Supplier	Silicon (Si)	7440-21-3		4.4435	mg
			Supplier	Polyimide	Proprietary Data		0.0165	mg
Die Attach	0.94	mg	Supplier	Silver (Ag)	7440-22-4		0.6396	mg
			Supplier	Epoxy resins	129915-35-1		0.2718	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0205	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0081	mg
Lead Frame	5.07	mg	Supplier	Zinc (Zn)	7440-66-6		0.0066	mg
			Supplier	Iron (Fe)	7439-89-6		0.1191	mg
			Supplier	Copper (Cu)	7440-50-8		4.9402	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0041	mg
Mold Compound-Black	87.83	mg		Brominated epoxy resin	proprietary data		0.8783	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.7026	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.8783	mg
			Supplier	Carbon Black (C)	1333-86-4		0.8783	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		73.7772	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		10.5396	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1757	mg
Plating	1.42	mg	В	Bismuth (Bi)	7440-69-9		0.0085	mg
			Supplier	Tin (Sn)	7440-31-5		1.4115	mg
Wire Bond - Au	0.28	mg	Supplier	Gold (Au)	7440-57-5		0.28	mg