	© Copyright 2005. IPC, international and Pan-An	Bannockb	<b>laration</b> urn, Illinois. A pyright conve	ll rights reserved untions.		ument is	s a declarati eclaration e	ion of the su encompasses	ıbstances s all lowe	within the manufa er level materials fo	cturer listed or which the	d item. Note e manufactu	e: if the ite irer has eng	em is an asse	mbly with lov sponsibility.
52-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					terials and	als and Mfg Information			
upplier Inf	formation														
Company name*			Company unique ID			Uniq	Unique ID Authority					Response Date*			
semi												2023-06-12			
ontact Name			Title - Contact			Pho	Phone - Contact*					Email - Contact*			
roduct-Env-S	Stewards	Product Enviro Compliance			NA	NA				Prod	Product-Env-Stewards@onsemi.com				
thorized Rej	epresentative*	Title - Representative			Pho	Phone - Representative*				Emai	Email - Representative*				
roduct-Env-S	Stewards	Product Enviro Compliance			NA	NA				Prod	Product-Env-Stewards@onsemi.com				
Reg	LB11970FV-W-AH IPH DRV driver with		m Number Mfr Item Name			Eff	Effective Date			Weight*	UC	ОМ	Unit Type		
				hall sensor method (open loop		23-06-12					130.0	mg	g	Each	
anufactur	ring Proccess Information	1													
Term	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STI		-STD-020 MSL Rating		Peak Process Body Temp		emperatu	ature Max Time at Peak Ter		rature Nu	mber of Re	teflow Cycle	S
contains Bi			CU Alloy 3				<b>260</b> C		30	sec	seconds 3				
omments															
TENTION:	: MSL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	3.45	mg	Supplier	Silicon (Si)	7440-21-3		3.4245	mg
			Supplier	Polyimide	Proprietary Data		0.0255	mg
Die Attach	0.7	mg	Supplier	Silver (Ag)	7440-22-4		0.497	mg
			Supplier	Epoxy resins	129915-35-1		0.203	mg
Lead Frame	17.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.0323	mg
			Supplier	Iron (Fe)	7439-89-6		0.4403	mg
			Supplier	Copper (Cu)	7440-50-8		16.5036	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0238	mg
Mold Compound-Black	106.9	mg		Epoxy Phenol Resin	proprietary data		12.828	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4276	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		90.4374	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		3.207	mg
Plating	1.8	mg	В	Bismuth (Bi)	7440-69-9		0.0108	mg
			Supplier	Tin (Sn)	7440-31-5		1.7892	mg
Wire Bond - Cu	0.15	mg	Supplier	Copper (Cu)	7440-50-8		0.15	mg