IPC ASSOCIATION CONNE	© Copyright 2005. II	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	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 Distribute				Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					ials and Mfc Information			
upplier Info	rmation													
Company name*			Company unique ID			τ	Unique ID Authority				Response Date*			
nsemi											2023-06-12			
Contact Name			Title - Contact			P	Phone - Contact*				Email - Contact*			
Product-Env-St	ewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorized Repr	resentative*	Title - Representative			P	Phone - Representative*			Email - Representative*					
Product-Env-Sto	ewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
Requ	Requester Item Number Mfr It		em Number Mfr Item Name			Effectiv		Version	N	Ianufacturing Site	We	ight*	UOM	Unit Type
		LV8711TL-TLM-H		Stepping motor driver			2023-06-12		P.	PHM		)	mg	Each
	ng Process Informat													
		-		STD-020 MSL	Rating	Peak Process Body Tem		•				er of Reflow Cyc	les	
contai	ins Bi	C	U Alloy	3			260		C	30	seconds	3		
omments														
	MSL 3 Rated item requires		•	,										
r more inform	nation regarding material	composition <sub>j</sub>	please refer t	o page 3										

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).											
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 is true and correction 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 have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability 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 such part shall apply.											
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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	3.47	mg	Supplier	Silicon (Si)	7440-21-3		3.4572	mg
			Supplier	Polyimide	Proprietary Data		0.0128	mg
Die Attach	0.38	mg	Supplier	Silver (Ag)	7440-22-4		0.2907	mg
			Supplier	Epoxy resins	129915-35-1		0.0893	mg
Lead Frame	24.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.0456	mg
			Supplier	Iron (Fe)	7439-89-6		0.6216	mg
			Supplier	Copper (Cu)	7440-50-8		23.2992	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0336	mg
Mold Compound-Black	50.59	mg		Epoxy Phenol Resin	proprietary data		6.0708	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2024	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		42.7991	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.5177	mg
Plating	1.1	mg	В	Bismuth (Bi)	7440-69-9		0.0066	mg
			Supplier	Tin (Sn)	7440-31-5		1.0934	mg
Wire Bond - Au	0.46	mg	Supplier	Gold (Au)	7440-57-5		0.46	mg