IPC ASSOCIATION OF ELECTRONICS	© Copyright 2005.	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 l	Information														
Company name*			Company ur	Company unique ID			Unique ID Authority				Response Date*				
nsemi											2023-06-08				
Contact Na	me		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Er	nv-Stewards		Product Enviro Compliance				NA			Product-Env-Stewards@onsemi.com					
Authorized Representative*				Title - Representative			Phone - Representative*			Email - Representative*					
Product-Env-Stewards Product Env				uct Enviro Compliance			NA			Product-Env-Stewards@onsemi.com					
	Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	M	Manufacturing Site		ght*	UOM	Unit Type	
		LV8732V-TLM-H Stepping motor		Stepping motor driv	river		2023-06-08		P	PHM		.0	mg	Each	
	turing Proccess Inform		erminal Base	Alloy	STD-020 MS	I. Pating	Pank Proce	es Rody Ta	mparatura	Max Time at Peak	Tamparatura	Numb	er of Reflow Cyc	lac	
		CU Alloy 3		31D-020 Nis.	L Kating		Peak Process Body Temperat				3	er of Reflow Cyc	168		
omments	onans Di		Anoy	3			200			130	seconds	13			
	ON: MSL 3 Rated item requi	ros Rako and D	ry Pack (ofto	r electrical test)											
	on: MSL 5 Kated item requires		•												

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 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 knowledge 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 suppliers 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 appl											
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	11.91	mg	Supplier	Silicon (Si)	7440-21-3		11.8659	mg
			Supplier	Polyimide	Proprietary Data		0.0441	mg
Die Attach	0.66	mg	Supplier	Silver (Ag)	7440-22-4		0.561	mg
			Supplier	Epoxy resins	129915-35-1		0.0891	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.0099	mg
Lead Frame	123.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.2337	mg
			Supplier	Iron (Fe)	7439-89-6		3.1857	mg
			Supplier	Copper (Cu)	7440-50-8		119.4084	mg
			Supplier	Phosphorus (P)	7723-14-0		0.1722	mg
Mold Compound-Black	210.17	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		16.8136	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		5.8848	mg
			Supplier	Carbon Black (C)	1333-86-4		2.1017	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		6.3051	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		168.136	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		10.5085	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.4203	mg
Plating	3.85	mg	В	Bismuth (Bi)	7440-69-9		0.0231	mg
			Supplier	Tin (Sn)	7440-31-5		3.8269	mg
Wire Bond - Cu	0.41	mg	Supplier	Copper (Cu)	7440-50-8		0.41	mg