IPC ASSOCIATION OF	Material Com © Copyright 2005 international and F	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 lowe 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 http://www.ipc.org/IPC-175x Form Type Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					aterials and	ials and Mfg Information			
upplier l	Information						·								
Company name*				Company unique ID			Unique ID Authority				Resp	Response Date*			
nsemi											2023-	2023-06-08			
Contact Nar	me	Title - Contact			I	Phone - Contact*				Emai	Email - Contact*				
Product-En	ıv-Stewards		Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com			
uthorized	Representative*	Title - Representative			I	Phone - Representative*				Emai	Email - Representative*				
Product-En	ıv-Stewards	Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com				
]	Requester Item Number Mfr		Item Number Mfr Item Name				Effective Date	e Vers	ion	Manufacturing Site		Weight*	UOM	Unit Type	
		LV5234VZ-TLM-H 9ch LED driv		9ch LED driver	er		2023-06-08	-06-08 PHM			200.0	mg	Each		
Ianufact	turing Proccess Inform	ation						·						·	
Т	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-020 M		-STD-020 MS	L Rating	Peak Process Body Tempera		ure Max Time at I	Peak Tempe	erature Num	ber of Reflow Cy	cles		
contains Bi		CU Alloy 3			260 C 30		30	sec	conds 3						
omments															
LIENTIO	N: MSL 3 Rated item requi	res Bake and D	ry Pack (afte	r electrical test)											
or more in	formation regarding materi	al composition	please refer t	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 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	geneous Material Weight Unit of Measure Level		Substance	CAS	Exempt	Weight	Unit of Measure	
Die	6.13	mg	Supplier	Silicon (Si)	7440-21-3		6.1073	mg
			Supplier	Polyimide	Proprietary Data		0.0227	mg
Die Attach	1.52	mg	Supplier	Silver (Ag)	7440-22-4		1.0342	mg
			Supplier	Epoxy resins	129915-35-1		0.4396	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0331	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0131	mg
Lead Frame	59.75	mg	Supplier	Zinc (Zn)	7440-66-6		0.0777	mg
			Supplier	Iron (Fe)	7439-89-6		1.4041	mg
			Supplier	Copper (Cu)	7440-50-8		58.2204	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0478	mg
Mold Compound-Black	129.76	mg		Epoxy Phenol Resin	proprietary data		15.5712	mg
			Supplier	Carbon Black (C)	1333-86-4		0.519	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		109.7769	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		3.8928	mg
Plating	2.13	mg	В	Bismuth (Bi)	7440-69-9		0.0128	mg
			Supplier	Tin (Sn)	7440-31-5		2.1172	mg
Wire Bond - Au	0.71	mg	Supplier	Gold (Au)	7440-57-5		0.71	mg