IPC ASSOCIATION CONNELECTRONICS INDU	Material Comp © Copyright 2005. international and Pa	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 Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ous Materia	ials and Mfg Information			
Supplier Inf	formation														
Company name* Company unio				nique ID Uniq			Unique ID Authority					Response Date*			
nsemi												2023-06-12			
Contact Name		Title - Contact			]	Phone - Contact*				Email - Contact*					
Product-Env-S	Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorized Rep	presentative*	Title - Representative			1	Phone - Representative*				Email - Representative*					
Product-Env-S	Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Req	quester Item Number	Mfr Item	Number	Mfr Item Name			Effective Dat	e Vers	Version Manufacturing Site		ng Site	W	eight*	UOM	Unit Type
		LC79431KNE-I		STN-LCD DRIVER			2023-06-12			1500.0		0.00	mg	Each	
Ianufactur	ring Proccess Informa	ation						1							
Term	Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020		SL Rating			dy Temperati	nture Max Time at Peak Temp		Temperatu	re Numl	ber of Reflow Cyc	les
contains Bi		CU Alloy 3			260		C	30		second	s <b>3</b>				
omments															
TTENTION:	MSL 3 Rated item requir	es Bake and D	ry Pack (afte	r electrical test)											
or more infori	mation regarding materia	l composition	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).											
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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	5.02	mg	Supplier	Silicon (Si)	7440-21-3		4.9889	mg
			Supplier	Polyimide	Proprietary Data		0.0311	mg
Die Attach	0.41	mg	Supplier	Silver (Ag)	7440-22-4		0.3136	mg
			Supplier	Epoxy resins	129915-35-1		0.0963	mg
Lead Frame	350.5	mg	Supplier	Silver (Ag)	7440-22-4		0.4907	mg
			Supplier	Tin (Sn)	7440-31-5		4.3462	mg
			Supplier	Zinc (Zn)	7440-66-6		1.0164	mg
			Supplier	Silicon (Si)	7440-21-3		2.4184	mg
			В	Nickel (Ni)	7440-02-0		11.181	mg
			Supplier	Copper (Cu)	7440-50-8		331.0472	mg
Mold Compound-Black	1131.53	mg		Brominated epoxy resin	proprietary data		12.4468	mg
			Supplier	Organic Phosphorus compound	Proprietary Data		2.2631	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		104.1008	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		4.5261	mg
			Supplier	Carbon Black (C)	1333-86-4		2.2631	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		970.8528	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		35.0774	mg
Plating	10.65	mg	В	Bismuth (Bi)	7440-69-9		0.0639	mg
			Supplier	Tin (Sn)	7440-31-5		10.5861	mg
Wire Bond - Au	1.89	mg	Supplier	Gold (Au)	7440-57-5		1.89	mg