IPC ASSOCIATION 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 d	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				
Supplier	Information				·										
Company n	name*		Company unique ID			Un	Unique ID Authority					Response Date*			
nsemi											2023-06-08				
Contact Na	nme		Title - Contact			Pho	Phone - Contact*				Email - Contact*				
Product-E	nv-Stewards		Product Enviro Compliance			N/	NA				Product-Env-Stewards@onsemi.com				
uthorized	Representative*		Title - Representative			Pho	Phone - Representative*				Email - Representative*				
Product-E	nv-Stewards		Product Enviro Compliance			N/	NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr I		Item Number Mfr Item Name			Effecti		Version	N.	Manufacturing Site		Weight*	UOM	Unit Type	
		NB3N40	NB3N401SMNTXG 3.3 V Quad Channe Driver Receiver		el HalfDuplex MLVI	OS 20	023-06-08	PH1			152.53	mg	Each		
<b>I</b> anufac	turing Proccess Inform	ation													
7	Terminal Plating / Grid Array Material T			Terminal Base Alloy J-STD-020 MSL F		g	Peak Process Body Temperature Max Time at		e Max Time at Peak	eak Temperature Number of Reflow Cycles					
Matte Tin (Sn) - annealed		CU Alloy 3			260 C 30		30	seconds 3							
omments															
<b>LIENTIO</b>	ON: MSL 3 Rated item requir	res Bake and D	ry Pack (afte	r electrical test)											
or more in	nformation regarding materia	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 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the 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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	13.43	mg	Supplier	Silicon (Si)	7440-21-3		13.43	mg
Die Attach	5.51	mg	Supplier	Silver (Ag)	7440-22-4		4.1325	mg
			Supplier	Epoxy resins	129915-35-1		1.3775	mg
Lead Frame	82.15		Supplier	Zinc (Zn)	7440-66-6		0.0822	mg
			Supplier	Iron (Fe)	7439-89-6		1.8895	mg
			Supplier	Copper (Cu)	7440-50-8		80.0963	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0821	mg
Mold Compound-Black	46.53			Epoxy resin	proprietary data		2.1869	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		4.653	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0465	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		37.4566	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		2.1869	mg
Plating	3.32	mg	Supplier	Tin (Sn)	7440-31-5		3.32	mg
Wire Bond - Au	1.59	mg	Supplier	Gold (Au)	7440-57-5		1.59	mg