IPC ASSOCIATION CONNE	© Copyright 2005. IPC	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			This docum level parts,	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 Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					ials and Mfc Information			
upplier Info	rmation					<u> </u>			,					
Company name*			Company unique ID			Unique ID Authority				Response Date*				
nsemi										2023-06-08				
Contact Name			Title - Contact			Phone - Contact*				Email - Contact*				
Product-Env-St	ewards		Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
authorized Repi	resentative*		Title - Representative			Phone - Representative*			Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requ	ester Item Number	Mfr Item Number		Mfr Item Name		Effective Da	te Vers	Version Manufacturing Site		V	Veight*	UOM	Unit Type	
		NB3W80	NB3W800LMNTXG 3.3 V 100/133 M Buffer for PCIe		z Differential and Fanout	2023-06-08 PH1		PH1	96.47		mg	Each		
Ianufacturii	ng Proccess Informatio	on												
Terminal Plating / Grid Array Material Term			erminal Base Alloy J-STD-020 MSL Rating		STD-020 MSL Rating	Peak Process Body Temperature   Max Time at Peak			x Temperature Number of Reflow Cycles					
Matte Tin (Sn) - annealed		C	CU Alloy 3			260	C		30	second	ls <b>3</b>			
omments														
TTENTION: N	MSL 3 Rated item requires 1	Bake and Di	ry Pack (after	r electrical test)										
or more inform	nation regarding material co	mposition p	please refer to	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 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 Iiability and the Company's remedies for issues that arise regarding information the Supplier prov										
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	2.33	mg	Supplier	Silicon (Si)	7440-21-3		2.33	mg
Die Attach	0.5	mg	Supplier	Silver (Ag)	7440-22-4		0.375	mg
			Supplier	Epoxy resins	129915-35-1		0.125	mg
Lead Frame	36.82	mg	Supplier	Silver (Ag)	7440-22-4		0.3682	mg
			Supplier	Tin (Sn)	7440-31-5		0.092	mg
			Supplier	Zinc (Zn)	7440-66-6		0.081	mg
			Supplier	Chromium (Cr)	7440-47-3		0.092	mg
			Supplier	Copper (Cu)	7440-50-8		36.1867	mg
Mold Compound-Black	54.23	mg		Epoxy resin	proprietary data		2.5488	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.423	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0542	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		43.6552	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		2.5488	mg
Plating	2.03	mg	Supplier	Tin (Sn)	7440-31-5		2.03	mg
Wire Bond	0.56	mg	Supplier	Palladium (Pd)	7440-05-3		0.0056	mg
			Supplier	Copper (Cu)	7440-50-8		0.5544	mg