PC SOCIATION CONNECTING CTRONICS INDUSTRIES* 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.									
	21.1 IPC Web Site for Information on IPC-1752 Standard Form 7 http://www.ipc.org/IPC-175x Distrib				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg				Mfg Information	on			
Supplier Information													
Company name* Compan			ompany unique ID			Unique ID Authority				Response Date*			
onsemi									2024-0	2024-05-04			
Contact Name Title - Contact			ct		Phone - Contact*			Email	Email - Contact*				
Product-Env-Stewards Product Enviro Co			o Compliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Representative			sentative	Pł		Phone - Representative*			Email	Email - Representative*			
Product-Env-Stewards Product Enviro			viro Compliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
	NB3N19	B3N1900KMNG 3.3V 1:19 HCSL Fa		Fanout Buffer		2024-05-04	PH1			332.79	mg	Each	
Anufacturing Proccess Informa	ntion										•	·	
Terminal Plating / Grid Array Material Terminal Base All		Alloy J	-STD-020 MSL	Rating	Peak Proce	ss Body Temp	erature Max Time at Pea	ık Temper	ature Numbe	er of Reflow Cy	cles		
Matte Tin (Sn) - annealed CU Alloy 3					260	C	30	seco	onds 3				
omments													
<b>FTENTION: MSL 3 Rated item requir</b>	es Bake and D	ry Pack (after	electrical test)										
or more information regarding materia	l composition	please refer to	page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed						
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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).										
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav Drska	Le									

## 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	3.94	mg	Supplier	Silicon (Si)	7440-21-3		3.94	mg
Die Attach	0.51	mg		Epoxy resin	proprietary data		0.0127	mg
			Supplier	Silver (Ag)	7440-22-4		0.408	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.0331	mg
			Supplier	Acrylic resins	Proprietary Data		0.0561	mg
Lead Frame	153.74	mg	Supplier	Silver (Ag)	7440-22-4		1.8449	mg
			Supplier	Zinc (Zn)	7440-66-6		0.1845	mg
			Supplier	Iron (Fe)	7439-89-6		3.6129	mg
			Supplier	Copper (Cu)	7440-50-8		148.0516	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0461	mg
Mold Compound-Black	170.0	mg		Epoxy resin	proprietary data		8.5	mg
			Supplier	Carbon Black (C)	1333-86-4		0.85	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		152.15	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		8.5	mg
Plating	3.21	mg	Supplier	Tin (Sn)	7440-31-5		3.21	mg
Wire Bond	1.39	mg	Supplier	Palladium (Pd)	7440-05-3		0.0139	mg
			Supplier	Copper (Cu)	7440-50-8		1.3761	mg

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).