ASSOCIATION CONNECTING ELECTROMICS INDUSTRIES® MOUSTRIES® MOUSTRIES® MOUSTRIES®	ourn, Illinois, All rights	reserved under both	This docume level parts, th	ent is a declaration he declaration end	n of the substance compasses all low	es within the manufacture ver level materials for wh	er listed item. Note: hich the manufacture	if the item is an as r has engineering	ssembly with lower responsibility.	
IPC Web Site for Information on I http://www.ipc.org/IPC-175x	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 Materials and Mfg Information						
Supplier Information										
ompany name* Company unique ID			Unique ID Authority			Response Date*				
semi							2023-06-08			
Contact Name	Title - Contact			Phone - Contact*			Email - Contact*			
oduct-Env-Stewards Product Enviro Compliance				NA			Product-Env-Stewards@onsemi.com			
uthorized Representative* Title - Representative			1	Phone - Representative*			Email - Representative*			
Product-Env-Stewards	pliance		NA			Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Item	n Number Mfr Ite	Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type	
NB3L20	2KMNG 1:2 HC	CSL Fanout Buffer		2023-06-08		MY1	26.42	mg	Each	
Manufacturing Proccess Information						•		L		
Terminal Plating / Grid Array Material T	Ferminal Plating / Grid Array Material Terminal Base Alloy J-STD-02		L Rating	Peak Proces	s Body Temperat	ure Max Time at Peak	Temperature Num	per of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy 1				260	С	30	seconds 3			
Comments										
evel 1 - maximum time at peak temperature during so	Idering is 10-30 second	ds								
For more information regarding material 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 ohthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).								
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 v 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	1.28	mg	Supplier	Silicon (Si)	7440-21-3		1.28	mg
Die Attach 0.2	0.22	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.044	mg
			Supplier	Silver (Ag)	7440-22-4		0.176	mg
Lead Frame	10.18	mg	Supplier	Silver (Ag)	7440-22-4		0.1527	mg
			Supplier	Tin (Sn)	7440-31-5		0.0255	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0224	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0255	mg
			Supplier	Copper (Cu)	7440-50-8		9.954	mg
Mold Compound-Black	14.24	mg		Epoxy resin	proprietary data		0.6693	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.424	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0142	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		11.4632	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.6693	mg
Plating	0.36	mg	Supplier	Tin (Sn)	7440-31-5		0.36	mg
Wire Bond - Au	0.14	mg	Supplier	Gold (Au)	7440-57-5		0.14	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).