C	Iaterial Composit Copyright 2005. IPC, I ternational and Pan-An	Bannockbi	urn, Illinois. A	ll rights reserved nations.	under both	This docum level parts, t	ent is a declar he declaration	ation of the encompa	e substance sses all low	s within the n er level mate	nanufacture rials for wh	er listed ite hich the m	em. Note: anufactur	: if the item is an a er has engineering	ssembly with lower responsibility.	
					Form Type Distribute						ous Materia	ials and Mfg Information				
Supplier Informatio)n															
Company name*			Company unique ID			Unique ID Authority					Response Date*					
onsemi												2023-06-08				
Contact Name '			Title - Contact			Phone - Contact*				Email - Contact*						
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Authorized Representative* Ti			Title - Representative			Phone - Representative*				Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Requester Iter	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Da	te Versi	on	Manufacturing Site		v	/eight*	UOM	Unit Type	
		NB3L204KMNTXG		1:4 HCSL Fanout Buffer			2023-06-08			MY1		4	3.41	mg	Each	
Manufacturing Pro	ccess Information	l		•				·						·		
Terminal Plating / Grid Array Material Termina			erminal Base A	Base Alloy J-STD-020 MSL Ratin		L Rating	Peak Process Body Temperature Max Time a		ne at Peak '	ak Temperature Number of Reflow Cycles						
Matte Tin (Sn) - annealed CU Alloy			U Alloy		1		260		С	30		second	s 3			
Comments																
level 1 - maximum time a	at peak temperature d	uring sole	dering is 10-3	0 seconds												
For more information re	garding material com	position p	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), 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	1.82	mg	Supplier	Silicon (Si)	7440-21-3		1.82	mg
Die Attach	0.27	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.054	mg
			Supplier	Silver (Ag)	7440-22-4		0.216	mg
Lead Frame	18.74	mg	Supplier	Silver (Ag)	7440-22-4		0.2811	mg
			Supplier	Tin (Sn)	7440-31-5		0.0468	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0412	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0468	mg
			Supplier	Copper (Cu)	7440-50-8		18.324	mg
Mold Compound-Black	21.22	mg		Epoxy resin	proprietary data		0.9973	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.122	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0212	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		17.0821	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.9973	mg
Plating	0.88	mg	Supplier	Tin (Sn)	7440-31-5		0.88	mg
Wire Bond - Au	0.48	mg	Supplier	Gold (Au)	7440-57-5		0.48	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).