ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® INDUSTRIES® INTERNATIONAL AND ADDRESS	, Bannockb	urn, Illinois. A	ll rights reserved u ntions.	under both	This docum level parts,	ent is a declarat	ion of the s encompasse	ubstance es all low	s within the manufactu er level materials for v	rer listed which the	item. Note: i manufacture	if the item is an as r has engineering	sembly with lower responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distribution				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and N	als and Mfg Information				
Supplier Information														
Company name*	Company un	Company unique ID			Unique ID Authority					Response Date*				
onsemi										2024-0	2024-05-20			
Contact Name Title - Contact			tact			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Product Env			t Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative			presentative			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Product E			duct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Numbe		umber Mfr Item Name			Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type	
	NB4N12	1KMNR2G	TSMC HCSL 1:21 FANOUT BUF		JF	2024-05-20			PH1		23.89	mg	Each	
Manufacturing Proccess Informatio	n		•										·	
Terminal Plating / Grid Array Mater	Plating / Grid Array Material Terminal Base		Alloy J	J-STD-020 MSI	L Rating	Peak Proc	ess Body T	emperati	are Max Time at Peak	c Tempera	ature Numl	ber of Reflow Cy	eles	
Matte Tin (Sn) - annealed CU Alloy		1	1		260		С	30	seco	nds 3				
Comments														
level 1 - maximum time at peak temperature	during sol	dering is 10-3	0 seconds											
for more information regarding material co	mposition]	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(Pb), Mercury (Hg), Hexavalent Chror	oHS 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 b), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl nthalate (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 co 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	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	0.24	mg	Supplier	Silicon (Si)	7440-21-3		0.24	mg
Die Attach	0.6	mg	Supplier	Silver (Ag)	7440-22-4		0.45	mg
			Supplier	Epoxy resins	129915-35-1		0.15	mg
Lead Frame 9	9.44	mg	Supplier	Silver (Ag)	7440-22-4		1.6048	mg
			Supplier	Iron (Fe)	7439-89-6		0.0755	mg
			Supplier	Copper (Cu)	7440-50-8		7.7597	mg
Mold Compound-Black	11.38	mg		Epoxy resin	proprietary data		0.7966	mg
			Supplier	Phenolic Resin	Proprietary Data		0.7966	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.707	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0569	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.0229	mg
Plating	0.67	mg	Supplier	Tin (Sn)	7440-31-5		0.67	mg
Wire Bond - Au	1.56	mg	Supplier	Gold (Au)	7440-57-5		1.56	mg