ABSOCIATION CONNECTING ELECTRONICS INDUSTRIES® Material Composition © Copyright 2005. IPC, Banı international and Pan-Americ	ockburn, Illinois. A	ll rights reserved un ntions.	nder both	This docume evel parts, t	ent is a declara he declaration	tion of the sencompass	substances es all low	s within the manufactu er level materials for w	rer listed i which the r	tem. Note: i nanufacture	if the item is an as r has engineering	sembly with lower responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute			¢	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information			
Supplier Information													
Company name* Company unique ID				Unique ID Authority					Response Date*				
semi									2023-06-08				
Contact Name	Title - Contact			1	Phone - Contact*				Email - Contact*				
Product-Env-Stewards	ct-Env-Stewards Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
ithorized Representative* Title - Representative				Phone - Representative*				Email - Representative*					
Product-Env-Stewards Product Enviro Compliance					NA				Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr	Mfr Item Number		Mfr Item Name		Effective Dat	e Versior	1	Manufacturing Site		Weight*	UOM	Unit Type	
NB	B3N2304NZDTG LOW SKEW 1:4 C		CLK BUFFER		2023-06-08 PH1		PH1		22.7	mg	Each		
Manufacturing Proccess Information						-					-		
Terminal Plating / Grid Array Material	al Terminal Base Alloy J		-STD-020 MSL	Rating	Peak Process Body Tempe		Femperatu	ture Max Time at Peak Temp		ture Numl	ber of Reflow Cyc	les	
Matte Tin (Sn) - annealed CU Alloy 3		5		260		С	30	secor	nds 3				
Comments													
ATTENTION: MSL 3 Rated item requires Bake a	nd Dry Pack (after	electrical test)											
For more information regarding material composition	tion 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), Disobutyl 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 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 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										
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.

	cable [E] enter the weigh			ance category (JIG or Requester) or enter [F] Optionally enter the positive (+) ar				
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.0	mg	Supplier	Silicon (Si)	7440-21-3		1	mg
Die Attach	0.66	mg	Supplier	Silver (Ag)	7440-22-4		0.495	mg
			Supplier	Epoxy resins	129915-35-1		0.165	mg
Lead Frame	10.38	mg	Supplier	Iron (Fe)	7439-89-6		0.1972	mg
			Supplier	Copper (Cu)	7440-50-8		10.1828	mg
Mold Compound-Black	9.5	mg		Epoxy Phenol Resin	proprietary data		0.9975	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.5025	mg
Plating	1.06	mg	Supplier	Tin (Sn)	7440-31-5		1.06	mg
Wire Bond - Au	0.1	mg	Supplier	Gold (Au)	7440-57-5		0.1	mg