ASSOCIATION CON	Material Composit © Copyright 2005. IPC, J international and Pan-An	Bannockb	urn, Illinois, A	Il rights reserved untions.	under both	This docum level parts, t	ent is a declarati	aration on enco	of the substanc	es within the n wer level mate	nanufacture rials for wh	er listed	item. Note: if manufacturer	the item is an a has engineering	ssembly with lower responsibility.
1752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				k	Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater					als and Mfg Information			
Supplier In													8		
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi												2023-06-08			
Contact Name	e		Title - Contact			Phone - Contact*				Email - Contact*					
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Authorized Representative*			Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Re	NB3U1548CDG 3.3V/2.5V LVCMOS			Number Mfr Item Name			Effective I	Date V	Version	Manufacturing Site			Weight*	UOM	Unit Type
					.8V/1.5V 160 MHz 1:4 .VTTL Low Skew Over Voltage nout Buffer		2023-06-0	8		РНС		72.0	mg	Each	
Manufactu	ring Proccess Information	I													
Terminal Plating / Grid Array Material Terminal Base Alloy				J-STD-020 MSL	Rating	ng Peak Process Body Temperature Max Time at Peak					Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy				1		260		С	30		seco	nds 3			
Comments															
level 1 - maxin	mum time at peak temperature d	uring sol	dering is 10-3	0 seconds											
For more info	rmation regarding 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		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth	
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 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	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.

sigma range of distribution unless otherwise noted).										
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg		
Die Attach	2.4	mg	Supplier	Silver (Ag)	7440-22-4		1.8	mg		
			Supplier	Epoxy resins	129915-35-1		0.6	mg		
Lead Frame	37.61	mg	Supplier	Silver (Ag)	7440-22-4		0.7898	mg		
			Supplier	Zinc (Zn)	7440-66-6		0.0451	mg		
			Supplier	Iron (Fe)	7439-89-6		0.8838	mg		
			Supplier	Copper (Cu)	7440-50-8		35.8799	mg		
			Supplier	Phosphorus (P)	7723-14-0		0.0113	mg		
Mold Compound-Black	28.58	mg		Epoxy resin	proprietary data		1.429	mg		
			Supplier	Phenolic Resin	Proprietary Data		1.429	mg		
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.5716	mg		
			Supplier	Carbon Black (C)	1333-86-4		0.1429	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		25.0075	mg		
Plating	1.89	mg	Supplier	Tin (Sn)	7440-31-5		1.89	mg		
Wire Bond - Au	0.19	mg	Supplier	Gold (Au)	7440-57-5		0.19	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).