© Copyright 2005. IPC, Bannoc	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.							
1752-21.1 IPC Web Site for Information of http://www.ipc.org/IPC-175x	IPC Web Site for Information on IPC-1752 Standard Form Ty http://www.ipc.org/IPC-175x Distribut			* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mi					g Informatio	on		
Supplier Information												
Company name* Company unique ID				Unique ID Authority				Response Date*				
onsemi	mi								2023-06-08			
Contact Name	Title - Contact				Phone - Contact*				Email - Contact*			
Product-Env-Stewards	luct-Env-Stewards Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
uthorized Representative* Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env-Stewards Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Ite	m Number	Mfr Item Name			Effective Date	Version	Manufacturing Site	V	Veight*	UOM	Unit Type	
NB3L2	04KMNG 1:4 HCSL Fanout B		Buffer		2023-06-08		MY1	4	3.41	mg	Each	
Manufacturing Proccess Information							·			-		
Terminal Plating / Grid Array Material	erial Terminal Base Alloy J-		-STD-020 MSL	Rating	Peak Process Body Temperat		rature Max Time at Peak	Temperatu	ire Numbe	er of Reflow Cyc	cles	
Matte Tin (Sn) - annealed CU Alloy 1					260	С	30	second	ls 3			
Comments												
level 1 - maximum time at peak temperature during s	oldering is 10-3	0 seconds										
For more information regarding material compositio	n 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	toHS 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 hthalate (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	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	Weight Unit of Measure Level Substance		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).