ASSOCIATION ELECTRONICS	Material Comp © Copyright 2005. International and Pa	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bointernational and Pan-American copyright conventions.			der both	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 on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information			
Supplier	Information													
Company name*				Company unique ID			Unique ID Authority				Response Date*			
onsemi											2023-06-08			
Contact Na	nme	Title - Contact				Phone - Contact*				Email - Contact*				
Product-E	nv-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Authorized	Representative*	Title - Representative]	Phone - Representative*				Email - Representative*				
Product-E	nv-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Da	rate Version Manufacturing Site			Weight*	UOM	Unit Type	
		NB7L1008MMNR4G TSM		TSMC, 1:8 F/O MI	TSMC, 1:8 F/O MLL-CML		2023-06-08]	PH1		74.3	mg	Each
Manufac	turing Proccess Informa	ntion									1			,
,	Terminal Plating / Grid Array Material Te			erminal Base Alloy J-STD-020 MS		SL Rating	Peak Process Body Temperat		ture Max Time at Peak Temper		ure Nur	mber of Reflow Cyc	les	
Matte Tin (Sn) - annealed CU A			U Alloy 1				260 C 30		30	seconds 3				
omments														
evel 1 - ma	ximum time at peak temperat	ure during sol	dering is 10-3	0 seconds										
or more i	nformation regarding material	composition	please refer to	page 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	led					
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), Diisobutyl phthalate (DIBP).										
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier have not with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.										
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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										
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recruired by the					
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the					

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.

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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.67	mg	Supplier	Silicon (Si)	7440-21-3		1.67	mg
Die Attach	0.37	mg	Supplier	Isobornyl Methacrylate	7534-94-3		0.0222	mg
			Supplier	Silver (Ag)	7440-22-4		0.3016	mg
			Supplier	Isobornyl Acrylate	5888-33-5		0.0222	mg
			Supplier	Misc.	Proprietary Data		0.0019	mg
			Supplier	Tricyclo[5.2.1.02,6]decanedimethanol Diacrylate (C18H24O4)	42594-17-2		0.0222	mg
Lead Frame	33.6	mg	Supplier	Silver (Ag)	7440-22-4		0.336	mg
			Supplier	Tin (Sn)	7440-31-5		0.084	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0739	mg
			Supplier	Chromium (Cr)	7440-47-3		0.084	mg
			Supplier	Copper (Cu)	7440-50-8		33.0221	mg
Mold Compound-Black	37.0	mg		Epoxy resin	proprietary data		1.739	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.7	mg
			Supplier	Carbon Black (C)	1333-86-4		0.037	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		29.785	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.739	mg
Plating	1.3	mg	Supplier	Tin (Sn)	7440-31-5		1.3	mg
Wire Bond - Au	0.36	mg	Supplier	Gold (Au)	7440-57-5		0.36	mg