IPC ASSOCIATION CONNECT ELECTRONICS INDUSTR	Material Compos © Copyright 2005. IPC international and Pan-A	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 lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
752-21.1		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 Mater					ous Materia	als and M	fg Informa	tion	
upplier Infor										, ,					
Company name*		Company unique ID			τ	Unique ID Authority					Response Date*				
onsemi												2023-06-08			
Contact Name		Title - Contact			1	Phone - Contact*					Email - Contact*				
Product-Env-Stev	vards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorized Repres	sentative*	Title - Representative			1	Phone - Representative*				Email - Representative*					
Product-Env-Stev	vards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
Reques	Requester Item Number		Mfr Item Number M		Mfr Item Name		Effective Dat	e Version		Manufacturing Site		,	Weight*	UOM	Unit Type
		N64S818HAS21I GF		GENERAL SALES (ULP)			2023-06-08 TH6			81.78		mg	Each		
Ianufacturing	g Proccess Informatio	on													
Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MS		SL Rating	Peak Process Bod		ody Temperature   Max Time at Peak		Temperat	ure Num	ber of Reflow Cyc	eles		
Matte Tin (Sn) - annealed			CU Alloy 3				260 C 30			secon	ds 3				
omments															
TTENTION: MS	SL 3 Rated item requires I	Bake and D	ry Pack (afte	r electrical test)											
or more informat	tion regarding material co	mposition <b>j</b>	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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 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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the 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 substar	nces per the definition above	Supplier A	cceptance *	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	3.89	mg	Supplier	Silicon (Si)	7440-21-3		3.89	mg
Die Attach	1.25	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.2875	mg
			Supplier	Silver (Ag)	7440-22-4		0.9625	mg
Lead Frame	29.12		Supplier	Zinc (Zn)	7440-66-6		0.0291	mg
			Supplier	Iron (Fe)	7439-89-6		0.6698	mg
			Supplier	Copper (Cu)	7440-50-8		28.392	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0291	mg
Mold Compound-Black	46.29			Epoxy resin	proprietary data		2.3145	mg
			Supplier	Phenolic Resin	Proprietary Data		2.3145	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.9258	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2315	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		40.5037	mg
Plating	0.96	mg	Supplier	Tin (Sn)	7440-31-5		0.96	mg
Wire Bond - Au	0.27	mg	Supplier	Gold (Au)	7440-57-5		0.27	mg