ASSOCIATION CONNEC	© Copyright 2005. IPC, I	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 low 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 Thttp://www.ipc.org/IPC-175x Distrib													
Supplier Info	rmation														
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
nsemi												2023-06-08			
Contact Name		Title - Contact			I	Phone - Contact*				Email -	Email - Contact*				
Product-Env-Ste	ewards		Product Enviro Compliance				NA				Produc	Product-Env-Stewards@onsemi.com			
uthorized Repr	resentative*		Title - Representative			I	Phone - Representative*				Email -	Email - Representative*			
Product-Env-Ste	ewards		Product Enviro Compliance				NA				Produc	Product-Env-Stewards@onsemi.com			
Reque	ester Item Number	Mfr Item	m Number Mfr Item Name				Effective Date	Version	M	Manufacturing Site THB		Weight*	* UOM	Unit Ty	
		NC7SZ57	UHS 2-Input Logic (		gic Gate		2023-06-08	Т				2.086814 m		Each	
<b>Ianufacturi</b> n	ng Proccess Information	1													
Termir	Terminal Plating / Grid Array Material		Terminal Base Alloy J		J-STD-020 MS	SL Rating	Peak Process Body Temperature		re Max Time at Peak Tempera		ture N	ure Number of Reflow Cycles			
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		C 30		secon	econds 3			
Comments															
vel 1 - maximur	m time at peak temperature d	uring sol	dering is 10-3	0 seconds											
or more inform	ation regarding material com	position 1	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 (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	0.04	mg	Supplier	Silicon (Si)	7440-21-3		0.04	mg
Die Attach Tape	0.003	mg	Supplier	Acrylate Copoloymer	58152-79-7		0.0005	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0015	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0004	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.0002	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0004	mg
Lead Frame	0.802872	mg	Supplier	Magnesium (Mg)	7439-95-4		0.001	mg
			Supplier	Silicon (Si)	7440-21-3		0.0063	mg
			В	Nickel (Ni)	7440-02-0		0.0261	mg
			Supplier	Copper (Cu)	7440-50-8		0.7695	mg
Mold Compound-Black	1.204	mg		Epoxy resin	proprietary data		0.0602	mg
			Supplier	Phenolic Resin	Proprietary Data		0.0277	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0602	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0048	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0277	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1.0234	mg
Plating	0.024942	mg	Supplier	Silver (Ag)	7440-22-4		0.0001	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0002	mg
			В	Nickel (Ni)	7440-02-0		0.0246	mg
			Supplier	Gold (Au)	7440-57-5		0.0001	mg
Wire Bond	0.012	mg	Supplier	Palladium (Pd)	7440-05-3		0.0002	mg
			Supplier	Gold (Au)	7440-57-5		0	mg
			Supplier	Copper (Cu)	7440-50-8		0.0117	mg