ASSOCIATION CONNE	Material Compe © Copyright 2005. II international and Pan	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.									
1752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
Supplier Info	rmation														
Company name* Company unique			que ID Unique I			Unique ID Auth	ique ID Authority				Response Date*				
nsemi											2023-06-08				
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-St	ewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
uthorized Repr	resentative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-Stewards Product				Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requ	Requester Item Number M:		Mfr Item Number Mfr Item Name				Effective Date	Version	N	Manufacturing Site	,	Weight*	UOM	Unit Type	
		NCP45525IMNTWG-H			WG-H		2023-06-08		τ	JTH	1	1.76364	mg	Each	
Ianufacturi i	ng Proccess Informat	tion													
Terminal Plating / Grid Array Material Terminal Base Alloy			Alloy	J-STD-020 MS	SL Rating	ng Peak Process Body Temperature Max Time at Peak Temper					ure Numbe	r of Reflow Cyc	eles		
Matte Tin (Sn) - annealed		CU Alloy 3		3		260		С	30	secon	ds 3				
omments															
TTENTION: M	ASL 3 Rated item requires	s Bake and D	ry Pack (after	electrical test)											
or more inform	ation regarding material	composition	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 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 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	0.63	mg	Supplier	Silicon (Si)	7440-21-3		0.63	mg
Die Attach	0.12964	mg		Bismaleimide Resin	proprietary data		0.0052	mg
			Supplier	Methacrylate - High Boiling	Proprietary Data		0.0104	mg
			Supplier	Silver (Ag)	7440-22-4		0.1141	mg
Die Attach Tape	0.03	mg	Supplier	Silicon Dioxide	7631-86-9		0.015	mg
			Supplier	Acrylate Copoloymer	58152-79-7		0.0045	mg
			Supplier	Formaldehyde, polymer with 4,4-(1-methylethylidene)bisphenol	25085-75-0		0.0042	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0021	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0042	mg
Lead Frame	4.29	mg	Supplier	Silver (Ag)	7440-22-4		0.0858	mg
			Supplier	Tin (Sn)	7440-31-5		0.0107	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0094	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0107	mg
			Supplier	Copper (Cu)	7440-50-8		4.1733	mg
Mold Compound-Black	6.0	mg		Epoxy resin	proprietary data		0.3	mg
			Supplier	Phenolic Resin	Proprietary Data		0.138	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.3	mg
			Supplier	Carbon Black (C)	1333-86-4		0.024	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.138	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.1	mg
Plating	0.46	mg	Supplier	Tin (Sn)	7440-31-5		0.46	mg
Wire Bond - Au	0.224	mg	Supplier	Gold (Au)	7440-57-5		0.224	mg