IPC ASSOCIATION CONNE ELECTRONICS INDUS	© Copyright 2005. IF	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.									
752-21.1		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 ID			J	Unique ID Authority					Response Date*			
nsemi												2024-04-17			
Contact Name		Title - Contact			F	Phone - Contact*					Email - Contact*				
Product-Env-Sto	ewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com					
uthorized Repr	resentative*	Title - Representative			F	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com				
Requ	ester Item Number	NCP51820AMNTWG High Speed Ha		m Number Mfr Item Name			Effective Dat	te Versio	on 1	Manufacturing Site		W	eight*	UOM	Unit Type
				High Speed Half- Power Switches	Bridge Driver f	or GaN	2024-04-17 TH6			40.7935		mg	Each		
Ianufacturii	ng Proccess Informat	ion													
Termi	nal Plating / Grid Array Ma	Plating / Grid Array Material Te		Геrminal Base Alloy .)20 MSL Rating		Peak Process Body Temperature		re Max Time at Peak Temper		Temperatu	ature Number of Reflow Cycles		eles
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy		1		260		С		30 seco		3			
comments															
vel 1 - maximu	m time at peak temperatu	re during so	ldering is 10-3	0 seconds					·		·				
or more inform	ation regarding material o	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).											
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the hts and/or remedies provided as part of						
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 recurined 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	0.203	mg	Supplier	Silicon (Si)	7440-21-3		0.203	mg	
Die Attach Tape	0.841	mg	Supplier	Acrylic AE Copolymer	58152-79-7		0.1262	mg	
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.4205	mg	
			Supplier	Formaldehyde Polymer	9003-36-5		0.1177	mg	
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.0589	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1177	mg	
Insulating Mold	12.1844	mg	Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethylbiphenyl	85954-11-6		1.8277	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.0122	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		9.1383	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.2063	mg	
Lead Frame	15.0822	mg	Supplier	Tin (Sn)	7440-31-5		0.0377	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.0302	mg	
			Supplier	Chromium (Cr)	7440-47-3		0.0452	mg	
			Supplier	Copper (Cu)	7440-50-8		14.9691	mg	
Mold Compound-Black	12.1844	mg		Epoxy resin	proprietary data		0.6092	mg	
			Supplier	Phenolic Resin	Proprietary Data		0.2802	mg	
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.6092	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.0487	mg	
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.2802	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		10.3567	mg	
Plating	0.2695	mg	Supplier	Palladium (Pd)	7440-05-3		0.0004	mg	
			В	Nickel (Ni)	7440-02-0		0.2691	mg	
			Supplier	Gold (Au)	7440-57-5		0.0001	mg	
Wire Bond - Au	0.029	mg	Supplier	Gold (Au)	7440-57-5		0.029	mg	