IPC ASSOCIATION CONNECTED ELECTRONICS INDUST	© Copyright 2005, IPC	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				e * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						als and Mf	g Inform	nation		
Supplier Info	rmation															
Company name*			Company unique ID			ī	Unique ID Authority					Response Date*				
onsemi											2024-05-21					
Contact Name		Title - Contact			]	Phone - Contact*					Email - Contact*					
Product-Env-Ste	ewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com					
uthorized Repr	esentative*	Title - Representative			]	Phone - Representative*				Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	quester Item Number Mfr Item		m Number Mfr Item Name				Effective Dat	te Versi	rsion Manufacturing Sit		ng Site	Weight*		UO	M	Unit Type
		NTND31015NZTAG N		NFET XLLGA6 20V 200MA 1.5O		.5O	2024-05-21 MY1		/IY1		0.	0.74 mg			Each	
<b>Ianufacturin</b>	ng Proccess Informatio	n												1		·
Termin	nal Plating / Grid Array Mater	ial T	Terminal Base Alloy		J-STD-020 MS	TD-020 MSL Rating		Peak Process Body Temperatur		ire Max Time at Peak Temper		Temperatu	ature Number of Reflow Cycles		S	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		С	30 seco		second	s <b>3</b>			
Comments																
vel 1 - maximun	n time at peak temperature	during so	ldering is 10-3	0 seconds												
or more informa	ation regarding material co	nposition	please refer to	page 3												

RoHS Material Composition Declaration			Declaration Type *	Detail	led
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an		
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 this 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 applicable exemptions.	contain RoHS restricted substances per	the definition above except for defined Ro	oHS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.03	mg	Supplier	Silicon (Si)	7440-21-3		0.03	mg
Die Attach	0.01	mg	Supplier	Silver (Ag)	7440-22-4		0.0075	mg
			Supplier	Epoxy resins	129915-35-1		0.0025	mg
Lead Frame	0.25	mg	Supplier	Tin (Sn)	7440-31-5		0.0006	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0005	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0006	mg
			Supplier	Copper (Cu)	7440-50-8		0.2482	mg
Mold Compound-Black	0.36	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0288	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0018	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0072	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.3114	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0108	mg
Plating	0.07	mg	Supplier	Palladium (Pd)	7440-05-3		0.0053	mg
			В	Nickel (Ni)	7440-02-0		0.0637	mg
			Supplier	Gold (Au)	7440-57-5		0.001	mg
Wire Bond - Au	0.02	mg	Supplier	Gold (Au)	7440-57-5		0.02	mg