ASSOCIATION CONNECT	© 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 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 Typ http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					als and Mf	g Inform	nation		
Supplier Infor	mation														
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*			
onsemi												2023-06-08			
Contact Name		Title - Contact			P	Phone - Contact*					Email - Contact*				
Product-Env-Ste	wards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
Authorized Repre	esentative*	Title - Representative			P	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
Reque	ster Item Number	NCP163ASN150T1G					Effective Dat	te Version	Version Man		acturing Site		eight*	UOM	Unit Type
						/ Noise	2023-06-08 TH		ГНВ		1:	15.62 mg		Each	
Ianufacturin	g Proccess Informatio	n													
Termin	al Plating / Grid Array Mate	rial T	Terminal Base Alloy		-STD-020 MSL Rating		Peak Process Body Temperature		e Max Time at Peak Temper		Temperatu	re Nu	mber of Reflow Cy	cles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		Au) (no	CU Alloy 1		1		260		С		30 seco		s 3		
Comments		·													
vel 1 - maximun	n time at peak temperature	during so	ldering is 10-3	0 seconds											
or more informa	ation regarding material co	mposition	please refer to	page 3	<u> </u>										

RoHS Material Composition Declaration			Declaration Type *	Detail	ed				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a						
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of				
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	0.8	mg	Supplier	Silicon (Si)	7440-21-3		0.8	mg
Die Attach	0.1	mg	Supplier	Silver (Ag)	7440-22-4		0.085	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.015	mg
Lead Frame	8.68	mg	Supplier	Zinc (Zn)	7440-66-6		0.0104	mg
			Supplier	Iron (Fe)	7439-89-6		0.2083	mg
			Supplier	Copper (Cu)	7440-50-8		8.4543	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0069	mg
Mold Compound-Black	5.93	mg		Epoxy resin	proprietary data		0.2965	mg
			Supplier	Phenolic Resin	Proprietary Data		0.2965	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.1186	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0296	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.1887	mg
Plating	0.06	mg	Supplier	Palladium (Pd)	7440-05-3		0.0046	mg
			В	Nickel (Ni)	7440-02-0		0.0546	mg
			Supplier	Gold (Au)	7440-57-5		0.0008	mg
Wire Bond	0.05	mg	Supplier	Palladium (Pd)	7440-05-3		0.0005	mg
			Supplier	Copper (Cu)	7440-50-8		0.0495	mg