IPC ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both le	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.									
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 Materi					ials and Mfc Information				
upplier I	Information								,						
Company name* Company unique ID				nique ID	e ID Unique ID /		Inique ID Auth	ue ID Authority			Response	Response Date*			
nsemi										2023-06-08					
Contact Nam	me	Title - Contact			P	Phone - Contact*				Email - Contact*					
Product-Env	v-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
uthorized F	Representative*	Title - Representative			P	Phone - Representative*			Email - Representative*						
Product-Env	v-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
R	Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	M	Manufacturing Site		Veight*	UOM	Unit Type	
	NC7S02M5X HS 2-Input NO		HS 2-Input NOR G	ate	2023-0			Pl	PBB		5.867101	mg	Each		
	uring Proccess Inform														
			STD-020 MSL I	Rating	<del></del>										
M	<b>Salution</b> In the second secon		CU Alloy	1			260	(	2	30	second	ls 3			
omments															
vel 1 - maxi	imum time at peak tempera	ture during sol	dering is 10-3	30 seconds											
or more inf	formation regarding materia	al composition	please refer t	o 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Clip	8.78733	mg	Supplier	Zinc (Zn)	7440-66-6		0.0105	mg
			Supplier	Iron (Fe)	7439-89-6		0.2065	mg
			Supplier	Copper (Cu)	7440-50-8		8.5676	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0026	mg
Die	0.8101	mg	Supplier	Silicon (Si)	7440-21-3		0.8101	mg
Die Attach	0.1013	mg	Supplier	Silver (Ag)	7440-22-4		0.081	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0203	mg
Mold Compound-Black	6.0046	mg		Epoxy resin	proprietary data		0.3002	mg
			Supplier	Phenolic Resin	Proprietary Data		0.1201	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.1501	mg
			Supplier	Carbon Black (C)	1333-86-4		0.03	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.4041	mg
Plating	0.062571	mg	Supplier	Palladium (Pd)	7440-05-3		0.0027	mg
			В	Nickel (Ni)	7440-02-0		0.059	mg
			Supplier	Gold (Au)	7440-57-5		0.0009	mg
Wire Bond - Au	0.1012	mg	Supplier	Gold (Au)	7440-57-5		0.1012	mg