IPC ASSOCIATION ELECTRONIE	© Copyright 200	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder 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 Ty  http://www.ipc.org/IPC-175x  Distribut				Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi				Materials	and Mfg Infor	nation			
Supplie	r Information														
Company name* Company uniqu				que ID Un			Unique ID Authority				Re	Response Date*			
n Semic	conductor										20	2021-02-04			
Contact N	Name		Title - Contact			P	Phone - Contact*				Eı	Email - Contact*			
Product-	Env-Stewards		Product Enviro Compliance			1	NA				P	Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*		Title - Representative			P	Phone - Representative*				Eı	Email - Representative*			
Product-	Env-Stewards		Product Enviro Compliance			1	NA				P	Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Iter		m Number Mfr Item Name				Effective Date Version Manufactur		lanufacturing	Site	Weight*	UOM	Unit Type		
		NC7SV	NC7SV74K8X ULP-A D-Type FF		F W/Pre/Clr		2021-02-04	TH2			9.554	mg	Each		
Ianufa	ncturing Process Inform									Ī.,					
			, and the second		-STD-020 MSL R	Rating			Temperature   Max Time at Peak   30		at Peak Tei	r	umber of Reflow C	ycles	
	Matte Tin (Sn) - annealed		CU Alloy	1			260		IC	30		seconds 3			
omments			11												
	naximum time at peak temper														
r more	information regarding mater	ial 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 is true and correction that such information is true and correction 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 provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the 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	0.16	mg	Supplier	Silicon (Si)	7440-21-3		0.16	mg
Die Attach	0.14		Supplier	Silver (Ag)	7440-22-4		0.105	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.035	mg
Lead Frame	4.286		Supplier	Silver (Ag)	7440-22-4		0.265	mg
			Supplier	Zinc (Zn)	7440-66-6		0.008	mg
			Supplier	Iron (Fe)	7439-89-6		0.097	mg
			Supplier	Copper (Cu)	7440-50-8		3.91	mg
			Supplier	Phosphorus (P)	7723-14-0		0.006	mg
Mold Compound-Black	4.768		Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.954	mg
			Supplier	Carbon Black (C)	1333-86-4		0.024	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3.79	mg
Plating	0.15	mg	Supplier	Tin (Sn)	7440-31-5		0.15	mg
Wire Bond - Au	0.05	mg	Supplier	Gold (Au)	7440-57-5		0.05	mg