IPC ASSOCIATION ELECTRONIC	© Copyright 200	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 Ty  http://www.ipc.org/IPC-175x  Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplie	r Information														
Company name* Company to				ny unique ID			Unique ID Authority					Response Date*			
n Semic	onductor											2021-02-04			
Contact N	Jame		Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance			N	NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*		Title - Representative			P	Phone - Representative*				Email - Representative*				
Product-	Env-Stewards		Product Enviro Compliance			N	NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	Date Version Manufacturing Site		uring Site	W	eight*	UOM	Unit Type	
		MC3327	72AD	ANA HI-SPD/S.S.	. DUAL O.A.		2021-02-04					72	2.0	mg	Each
Ianufa	cturing Process Infor	nation				·						·			
	Terminal Plating / Grid Array Material		•		-STD-020 MSL R	Rating			Body Temperatu	ature Max Time at Peak		Temperatu	e Nun	nber of Reflow Cy	cles
PbSn			CU Alloy 1				235   C   30				seconds 3				
omments															
vel 1 - m	aximum time at peak temper	ature during so	ldering is 10-3	30 seconds											
r more	information regarding mater	ial composition	please refer to	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed							
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 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 into a written agreement 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 * 5 - Item(s	s) is obsolete, no information is available		Supplier Acceptance	* 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											
Instructions: Complete all of the required	fields on all pages of this form. Select the "Ac	cented" on the Supplier Acceptance dron-down	n This will display the signature area Digital	ly sign the declaration (if required by the							
Instructions: Complete all of the required Requester) and click on Submit Form to ha	fields on all pages of this form. Select the "Acave the form returned to the Requester.	ccepted" on the Supplier Acceptance drop-down	n. This will display the signature area. Digital	ly 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	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg
Die Attach	2.4	mg	Supplier	Silver (Ag)	7440-22-4		1.8	mg
			Supplier	Epoxy resins	129915-35-1		0.6	mg
Lead Frame	37.61		Supplier	Silver (Ag)	7440-22-4		0.7898	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0752	mg
			Supplier	Iron (Fe)	7439-89-6		0.9403	mg
			Supplier	Copper (Cu)	7440-50-8		35.8047	mg
Mold Compound-Black	28.58			Brominated epoxy resin	proprietary data		0.7145	mg
			Supplier	Phenolic Resin	Proprietary Data		2.6008	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.8574	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		19.1772	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		5.2301	mg
Plating	1.89	mg	A	Lead (Pb)	7439-92-1		0.378	mg
			Supplier	Tin (Sn)	7440-31-5		1.512	mg
Wire Bond - Au	0.19	mg	Supplier	Gold (Au)	7440-57-5		0.19	mg