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.										
1752-21.1	1 IPC Web Site for Information on IPC-1752 Standard Porm Type http://www.ipc.org/IPC-175x Form Type Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information						
Supplier	Information															
Company name* Company unique ID				ique ID	Unique			Inique ID Authority				Response Date*				
nsemi													2023-06-08			
Contact Na	nme	Title - Contact			1	Phone - Contact*					Email - Contact*					
Product-Env-Stewards Product				Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Authorized	Representative*	Title - Representative			]	Phone - Representative*				Email - Representative*						
Product-E	nv-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
			Number Mfr Item Name				Effective Dat	ctive Date   Version   Manufacturing Site		ing Site	W	eight*	UOM	Unit Type		
			ANA FXD FREQ 700V MOSFET		Γ	2023-06-08 ID1			471.77		mg	Each				
Manufac	turing Proccess Informat	tion						•				1		·	·	
,	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD		J-STD-020 MSL	Rating	Peak Pro	Process Body Temperature M		re Max Ti	ime at Peak Temperatu		e Numb	per of Reflow Cyc	eles	
1	Matte Tin (Sn) - annealed		CU Alloy NA		NA		0 C		30		seconds 3					
Comments																
or more in	nformation regarding material	composition	please refer to	page 3	•			•					•		_	

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 minimuly 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	2.19	mg	Supplier	Silicon (Si)	7440-21-3		2.19	mg
Die Attach	8.92	mg	Supplier	Silver (Ag)	7440-22-4		6.69	mg
			Supplier	Epoxy resins	129915-35-1		2.23	mg
Lead Frame	131.05	mg	Supplier	Silver (Ag)	7440-22-4		0.9173	mg
			Supplier	Zinc (Zn)	7440-66-6		0.2621	mg
			Supplier	Iron (Fe)	7439-89-6		3.4073	mg
			Supplier	Copper (Cu)	7440-50-8		126.4632	mg
Mold Compound-Black	317.53	mg		Epoxy resin	proprietary data		15.8765	mg
			Supplier	Phenolic Resin	Proprietary Data		15.8765	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		6.3506	mg
			Supplier	Carbon Black (C)	1333-86-4		1.5876	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		277.8387	mg
Plating	11.9	mg	Supplier	Tin (Sn)	7440-31-5		11.9	mg
Wire Bond	0.18	mg	Supplier	Palladium (Pd)	7440-05-3		0.0018	mg
			Supplier	Copper (Cu)	7440-50-8		0.1782	mg