IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	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 Type 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 unique ID					Unique ID Authority				Response Date*					
n Semic	conductor										2021-02-04			
Contact Name Title -				itle - Contact			Phone - Contact*				Email - Contact*			
Product-l	Env-Stewards		Product Env	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Authorized Representative* Title				itle - Representative			Phone - Representative*				Email - Representative*			
Product-Env-Stewards Product En				ct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective Date	Version	Manu	Manufacturing Site		eight*	UOM	Unit Type
		J112 NFET/S TO-92		NFET/S TO-92		2021-02-04 CNF			223	3.092	mg	Each		
lanufa	ncturing Process Inform		Tarminal Daga	Alloy	I-STD-020 MS	I. Poting	Dook Droop	nee Dody To	omnoroturo M	av Tima at Paak	Tamparatur	Numb	or of Potlow Cus	Jac
	8		Terminal Base Alloy J-STD  CU Alloy NA			L Kaung	Peak Process Body Temperature Max Time a			ak Temperature Number of Reflow Cycles seconds 3		ries		
omments	` /		CC Alloy	I	1/1		U		<u> </u>		seconus	J		
omments	3													
r more	information regarding materia	al composition	nlease refer to	n nage 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 knowledges 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 paragraph. If the Company and the Supplier 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											
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	0.075 mg		Supplier	Silicon (Si)	7440-21-3		0.075	mg
Lead Frame 101.001		mg	Supplier	Silver (Ag)	7440-22-4		1.01	mg
			Supplier	Manganese (Mn)	7439-96-5		0.505	mg
			В	Nickel (Ni)	7440-02-0		0.182	mg
			Supplier	Iron (Fe)	7439-89-6		98.4	mg
			Supplier	Copper (Cu)	7440-50-8		0.904	mg
Mold Compound-Black	112.0		Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		3.36	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		22.4	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		2.8	mg
			Supplier	Carbon Black (C)	1333-86-4		0.84	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		82.6	mg
Plating	9.94	mg	Supplier	Tin (Sn)	7440-31-5		9.94	mg
Wire Bond - Au	0.076	mg	Supplier	Gold (Au)	7440-57-5		0.076	mg