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	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					
Supplier	r Information														
Company name* Company uniq				ique ID			Unique ID Authority					Response Date*			
n Semic	onductor											2021-02-03			
Contact N	Jame	Title - Contact			1	Phone - Contact*				Email - Contact*					
Product-I	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*	Title - Representative			1	Phone - Representative*				Email - Representative*					
Product-I	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Dat	Date Version Manufacturing Site		iring Site	V	Veight*	UOM	Unit Type	
		2N3904TFR		NPN 40V/0.2A 100-300			2021-02-03			CNF		2	23.092	mg	Each
<b>I</b> anufa	cturing Proccess Informat	ion													
	Terminal Plating / Grid Array Material Te		Cerminal Base Alloy J-STD-020 M		-STD-020 MSI	_ Rating	Peak Process Body Temperati		ture Max Time at Peak Temper		Temperati	are Numl	ber of Reflow Cyc	eles	
	Matte Tin (Sn) - annealed		CU Alloy NA			0 C		30 seco		secono	is 3				
omments	3														
or more	information 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  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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the 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	0.075 mg		Supplier	Silicon (Si)	7440-21-3		0.075	mg
Lead Frame 101.001 mg		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