IPC - ASSOCIATION CONN ELECTRONICS INDUS	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	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 Typhttp://www.ipc.org/IPC-175x Distribute				k	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier Info	formation						·								
Company name*			Company unique ID			J	Unique ID Authority				Response Date*				
nsemi											2024-05-04				
Contact Name			Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-S	Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorized Rep	presentative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-S	Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com				
Requ	uester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	N	Manufacturing Site	We	ight*	UOM	Unit Type	
		FFB2227A NPN/PNP COMP		NPN/PNP COMP C	OSE XTOR		2024-05-04 CN1		CN1	5.7	59	mg	Each		
	ing Process Informa		Carminal Daga	Alloy	STD-020 MSL	Pating	Dook Proc	ass Dady T	amparatur	May Time at Peak	Tomporature	Numb	er of Reflow Cyc	Jac	
		Terminal Base Alloy J-STD-0 CU Alloy 1		51D-020 MSL	Kating	Peak Process Body Tempera 260 C		T *				er of Reflow Cyc	ies		
•	te 1 m (Sn) - anneaied		O Alloy	1			200		IC	30	seconds	13			
omments	4: 4 1- 4		J	20 1-											
	um time at peak temperat														
r more infort	mation regarding materia	i composition [piease refer t	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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 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 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 substa	ances per the definition above	Supplier Ac	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											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally 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	0.148	mg	Supplier	Silicon (Si)	7440-21-3		0.148	mg
Lead Frame	2.087	mg	Supplier	Silver (Ag)	7440-22-4		0.015	mg
			Supplier	Manganese (Mn)	7439-96-5		0.0171	mg
			Supplier	Silicon (Si)	7440-21-3		0.0061	mg
			В	Nickel (Ni)	7440-02-0		0.8765	mg
			Supplier	Iron (Fe)	7439-89-6		1.1723	mg
Mold Compound-Black	3.224		Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.935	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0322	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2.2568	mg
Plating	0.274	mg	Supplier	Tin (Sn)	7440-31-5		0.274	mg
Wire Bond - Au	0.026	mg	Supplier	Gold (Au)	7440-57-5		0.026	mg