IPC ASSOCIATION ELECTRONIE	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 lowe 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					us Materia	ials and Mfg Information			
upplie	r Information														
Company name* Compar				npany unique ID			Unique ID Authority					Response Date*			
nsemi												2023-06-08			
Contact N	Vame	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*				
Product-	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*	Title - Representative			]	Phone - Representative*					Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	e Version Manufacturing Site		g Site	W	eight*	UOM	Unit Type	
		FSBB10	FSBB10CH120D SPM3V INV 1200				2023-06-08 CPA			16	5491.803	mg	Each		
Ianufa	acturing Process Informa	ation													
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD		-STD-020 MSL	Rating	Peak Process Body Temperature		ture Max Time at Peak Tempera		Temperatu	re Numbe	r of Reflow Cyc	eles	
	Matte Tin (Sn) - annealed		CU Alloy NA		NA .		0 C 30			seconds 3					
omments	S														
or more	information regarding materia	l composition	please refer t	o 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 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 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 Terms and Conditions of Sale applicable to such											
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
DBC	1880.0	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		752	mg
			Supplier	Copper (Cu)	7440-50-8		1128	mg
Die	67.7	mg	Supplier	Silicon (Si)	7440-21-3		67.7	mg
Die Attach	31.4	mg	Supplier	Silver (Ag)	7440-22-4		0.785	mg
			Supplier	Tin (Sn)	7440-31-5		29.045	mg
			Supplier	Copper (Cu)	7440-50-8		1.57	mg
Die Attach2	0.163	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0049	mg
			Supplier	Miscellaneous	Trade Secret		0.0082	mg
			Supplier	Silver (Ag)	7440-22-4		0.1386	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0114	mg
Lead Frame	4318.38	mg	Supplier	Silver (Ag)	7440-22-4		1.47	mg
			Supplier	Iron (Fe)	7439-89-6		5.18	mg
			Supplier	Copper (Cu)	7440-50-8		4309.998	mg
			Supplier	Phosphorus (P)	7723-14-0		1.73	mg
Mold Compound-Black	10122.0	mg	Supplier	Polymer(phenyl glycidil ether)-co- dicyclopentadiene	119345-05-0		404.88	mg
			Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethylbiphenyl	85954-11-6		404.88	mg
			Supplier	Carbon Black (C)	1333-86-4		50.61	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8755.5303	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		101.22	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		404.88	mg
Plating	53.3	mg	Supplier	Tin (Sn)	7440-31-5		53.3	mg
Wire Bond - Al	18.3	mg	Supplier	Aluminum (Al)	7429-90-5		18.3	mg
Wire Bond - Cu	0.56	mg	Supplier	Copper (Cu)	7440-50-8		0.56	mg