	international and Par	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder 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.									
52-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typhttp://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					nterials and	ials and Mfg Information			
ıpplier I	Information														
ompany na	ame*	Company unique ID			J	Unique ID Authority				Respo	Response Date*				
semi											2023-	2023-06-08			
ntact Nan	ne	Title - Contact			F	Phone - Contact*				Emai	Email - Contact*				
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roduct-En	v-Stewards	Product Enviro Compliance			]	NA				Prod	Product-Env-Stewards@onsemi.com				
F	Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type	
	FSBB20CF		CH120D	120D SPM3V INV 1200V 20A			2023-06-08 CPA			15140.977	mg	Each			
	turing Process Information			A 11	CTD 020 MGI	D. C	D 1 D	D 1 7		M T' 1	1.7	. 5.	CD CL	,	
8 - w w				-STD-020 MSL	Rating	Peak Process Body Temperature			1.		of Reflow Cy	cles			
	Matte Tin (Sn) - annealed	(	CU Alloy	I.	NA				IC.	30	sec	onds 3			
omments															
	formation regarding material	••	1 0 1												

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 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 has 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 has not or written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies of 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	119.273	mg	Supplier	Silicon (Si)	7440-21-3		119.273	mg
Die Attach Epoxy	3.1824	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0955	mg
			Supplier	Miscellaneous	Trade Secret		0.1591	mg
			Supplier	Silver (Ag)	7440-22-4		2.705	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.2228	mg
Die Attach Solder	63.1609	mg	Supplier	Silver (Ag)	7440-22-4		1.8948	mg
			Supplier	Tin (Sn)	7440-31-5		60.9503	mg
			Supplier	Copper (Cu)	7440-50-8		0.3158	mg
Heat Sink	2416.55	mg	Supplier	Aluminum Nitride (AlN)	24304-00-5		942.4545	mg
			Supplier	Copper (Cu)	7440-50-8		1474.0956	mg
Lead Frame	3026.94	mg	Supplier	Silver (Ag)	7440-22-4		0.0303	mg
			Supplier	Iron (Fe)	7439-89-6		3.0269	mg
			Supplier	Copper (Cu)	7440-50-8		3022.9746	mg
			Supplier	Phosphorus (P)	7723-14-0		0.9081	mg
Mold Compound-Black	9345.94	5.94 mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		560.7564	mg
			Supplier	Carbon Black (C)	1333-86-4		93.4594	mg
			Supplier	Silica (SiO2)	14464-46-1		8130.9683	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		560.7564	mg
Plating	113.724	mg	Supplier	Tin (Sn)	7440-31-5		113.724	mg
Wire Bond - Al	50.409	mg	Supplier	Aluminum (Al)	7429-90-5		50.409	mg
Wire Bond - Au	1.79769	mg	Supplier	Gold (Au)	7440-57-5		1.7977	mg