IPC ASSOCIATION ELECTRONIC	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.										
1752-21.1					Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information					
Supplie	r Information															
Company name* Company uniq				que ID			Unique ID Authority					Response Date*				
onsemi													2023-06-08			
Contact N	lame	Title - Contact				Phone - Contact*				Email - Contact*						
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorize	ed Representative*		Title - Representative				Phone - Representative*				Email - Representative*					
Product-1	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Da	ate Version Manufacturing Site		uring Site	V	Veight*	UOM	Unit Type		
		FPDB401	FPDB40PH60B S		SPM3V CON 600V 40A SB		2023-06-08			СРА		1	6492.363	mg	Each	
Manufa	cturing Proccess Information	tion										,				
	Terminal Plating / Grid Array Material T		Terminal Base Alloy J-STD-020 MS		-STD-020 MSI	L Rating	Peak Process Body Temperato		ure Max Time at Peak Tempera		Temperatu	ire Numbe	r of Reflow Cyc	eles		
	Matte Tin (Sn) - annealed		CU Alloy NA			0 C		30 seco		second	ls 3					
Comments	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).											
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all						
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	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
Heat Sink	1880.0	mg	Supplier	Aluminum (Al)	7429-90-5		1880	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	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		303.66	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		2024.4	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		253.05	mg
			Supplier	Carbon Black (C)	1333-86-4		101.22	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		7439.6699	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 - Au	1.12	mg	Supplier	Gold (Au)	7440-57-5		1.12	mg