IPC ASSOCIATION ELECTRONIC	Material Compo © Copyright 2005. II cs INDUSTRIES® international and Pan	PC, Bannockb	urn, Illinois. A	all rights reserved un	nder both	This docume level parts, t	ent is a declaration	ation of	f the substances npasses all lowe	within the	e manufactur aterials for w	rer listed it hich the m	em. Note: if anufacturer l	the item is an as	sembly with lowe responsibility.
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information				
Supplie	r Information														
Company name* Company				pany unique 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-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Da	Date Version Manufacturing Site		uring Site	V	Weight*	UOM	Unit Type	
		FPAB20BH60B SP		SPM3V CON 600V 20A SB		2023-06-08			СРА		1	5060.687	mg	Each	
Manufa	cturing Proccess Informat	tion													
	Terminal Plating / Grid Array Material Te		Cerminal Base Alloy J-STD-020 M		-STD-020 MSL	Rating	Peak Process Body Temperatu		ure Max Time at Peak Tempera		Temperati	ure Numbe	r of Reflow Cyc	eles	
	Matte Tin (Sn) - annealed		CU Alloy NA			0 C 30		30		seconds 3					
Comments	3														
or more	information regarding material	compositi <u>on</u> j	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an						
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not e at least as comprehensive as the hts and/or remedies provided as part of				
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 recruired 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
DBC	2416.55	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		966.6201	mg
			В	Nickel (Ni)	7440-02-0		24.1655	mg
			Supplier	Copper (Cu)	7440-50-8		1425.7645	mg
Die	45.2664	mg	Supplier	Silicon (Si)	7440-21-3		45.2664	mg
Die Attach	34.639	mg	Supplier	Silver (Ag)	7440-22-4		2.0783	mg
			Supplier	Tin (Sn)	7440-31-5		31.8679	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.6928	mg
Die Attach Epoxy	1.0764	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0323	mg
			Supplier	Miscellaneous	Trade Secret		0.0538	mg
			Supplier	Silver (Ag)	7440-22-4		0.9149	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0753	mg
Lead Frame	2980.02	mg	Supplier	Silver (Ag)	7440-22-4		0.0298	mg
			Supplier	Iron (Fe)	7439-89-6		2.98	mg
			Supplier	Copper (Cu)	7440-50-8		2976.1162	mg
			Supplier	Phosphorus (P)	7723-14-0		0.894	mg
Mold Compound-Black	9449.18	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		283.4754	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		1889.8359	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		236.2295	mg
			Supplier	Carbon Black (C)	1333-86-4		94.4918	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		6945.147	mg
Plating	77.274	mg	Supplier	Tin (Sn)	7440-31-5		77.274	mg
Thermistor	4.47358	mg	Supplier	Silver (Ag)	7440-22-4		0.3579	mg
			Supplier	Tin (Sn)	7440-31-5		0.0761	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		1.1631	mg
			Supplier	Palladium (Pd)	7440-05-3		0.1521	mg
			В	Nickel (Ni)	7440-02-0		0.0313	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		0.7695	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		1.9236	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