IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved und 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 low 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 http://www.ipc.org/IPC-175x Form Typ Distribute				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplie	r Information														
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
nsemi											2023-06-08				
Contact N	Jame	Title - Contact			I	Phone - Contact*					Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*	Title - Representative			I	Phone - Representative*]	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Iter		n Number Mfr Item Name				Effective Date	e Date Version Manufacturing Site		g Site	W	eight*	UOM	Unit Type	
		FDMF5821 Smart		Smart Power Stage Module			2023-06-08		F	PBB		75	.47661	mg	Each
Ianufa	cturing Process Inform	ation						•				•			·
	Terminal Plating / Grid Array N	Terminal Base Alloy J-STD-020 M		-STD-020 MSL	Rating	Peak Process Body Temperatur		e Max Tim	e at Peak T	emperatur	e Numbe	er of Reflow Cyc	cles		
Matte Tin (Sn) - annealed		CU Alloy 1			260		C 30		seconds		3				
omments	3														
vel 1 - m	aximum time at peak tempera	ture during so	ldering is 10-3	30 seconds											
or more	information regarding materia	al composition	please refer to	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed							
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 informationprovided 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 supplier have 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 of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substance	s per the definition above except for selected exemp	tions Supplier Acceptance	* Accepted							
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required f Requester) and click on Submit Form to ha		Accepted" on the Supplier Acceptance drop-dow	n. This will display the signature area. Digita	lly sign the declaration (if required by the							
Supplier Digital Signature Ra	astislav Drska	-En									

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
Clip	18.0834	mg	Supplier	Zinc (Zn)	7440-66-6		0.0235	mg
			Supplier	Iron (Fe)	7439-89-6		0.4249	mg
			Supplier	Copper (Cu)	7440-50-8		17.6295	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0054	mg
Die	1.77313	mg	Supplier	Silicon (Si)	7440-21-3		1.7731	mg
Die Attach Solder	1.41442	mg	Supplier	Silver (Ag)	7440-22-4		0.0354	mg
			A	Lead (Pb)	7439-92-1	7a	1.3083	mg
			Supplier	Tin (Sn)	7440-31-5		0.0707	mg
Lead Frame	25.8678	mg	Supplier	Silver (Ag)	7440-22-4		0.3854	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0323	mg
			Supplier	Iron (Fe)	7439-89-6		0.3492	mg
			Supplier	Copper (Cu)	7440-50-8		25.093	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0077	mg
Mold Compound-Black	26.5313	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.7245	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1327	mg
			Supplier	Silica (SiO2)	14464-46-1		23.3475	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.3266	mg
Plating	1.42432	mg	Supplier	Tin (Sn)	7440-31-5		1.4243	mg
Wire Bond - Au	0.193	mg	Supplier	Gold (Au)	7440-57-5		0.193	mg
Wire Bond - Cu	0.189235	mg	Supplier	Palladium (Pd)	7440-05-3		0.0034	mg
			Supplier	Gold (Au)	7440-57-5		0.0002	mg
			Supplier	Copper (Cu)	7440-50-8		0.1856	mg