ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES INDUSTRIES	omposition Dec 005. IPC, Bannockb 1d Pan-American co	c laration ourn, Illinois. A opyright conve	All rights reserved u ntions.	nder both	This docume level parts, th	ent is a declaration er	n of the substanc compasses all lo	es within the manuf wer level materials	acturer listed	d item. Note: if e manufacturer	the item is an as has engineering	ssembly with low responsibility.	
[·· ·· ·· ··	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials				laterials and	ls and Mfg Information			
upplier Information													
ompany name*	Company unique ID			ι	Unique ID Authority				Response Date*				
nsemi									2023-06-08				
Contact Name Titl			Title - Contact			Phone - Contact*				Email - Contact*			
Product-Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*			Emai	Email - Representative*			
roduct-Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	Requester Item Number Mfr Item					Effective Date	Version	Manufacturing Si	te	Weight*	UOM	Unit Type	
	FSAM50	SAM50SM60A SPM32 INV 600		JV 50A_S		2023-06-08 CPA		СРА		31611.66	mg	Each	
Ianufacturing Proccess Info	rmation												
Terminal Plating / Grid Arr	Terminal Plating / Grid Array Material Termin		al Base Alloy J-STD-020 MSI		L Rating	Peak Proce	Peak Process Body Temperatur		Peak Tempe	rature Numb	er of Reflow Cy	cles	
Matte Tin (Sn) - annealed		CU Alloy NA		NA		0	0 C		sec	onds 3			
omments													
or more information regarding mat	erial composition	please refer to	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), Disobutyl phthalate (DIBP).									
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company	ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in iffies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg	nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co	e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of					
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted subst	ances per the definition above except for sele	ected exempt	ions Supplier Acceptance	* Accepted					
Exemption: 7a: Lead in high melting temp	erature type solders (i.e. lead based sol	der alloys containing 85% by weight or m	ore lead).							
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required Requester) and click on Submit Form to h			e drop-dowi	a. This will display the signature area. Digita	lly sign the declaration (if required by the					
Supplier Digital Signature	astislav Drska	Le								

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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
DBC	5920.0	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		2308.7998	mg
			В	Nickel (Ni)	7440-02-0		59.2	mg
			Supplier	Copper (Cu)	7440-50-8		3552.0002	mg
Die	67.7	mg	Supplier	Silicon (Si)	7440-21-3		67.7	mg
Die Attach	150.0	mg	Supplier	Silver (Ag)	7440-22-4		3	mg
			А	Lead (Pb)	7439-92-1	7a	132	mg
			Supplier	Tin (Sn)	7440-31-5		15	mg
Die Attach Epoxy	14.36	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.4308	mg
			Supplier	Miscellaneous	Trade Secret		0.718	mg
			Supplier	Silver (Ag)	7440-22-4		12.206	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.0052	mg
Lead Frame	12303.9	mg	Supplier	Silver (Ag)	7440-22-4		4.1883	mg
			Supplier	Iron (Fe)	7439-89-6		14.7588	mg
			Supplier	Copper (Cu)	7440-50-8		12280.0186	mg
			Supplier	Phosphorus (P)	7723-14-0		4.9291	mg
Mold Compound-Black	13000.0	mg	Supplier	Brominated Epoxy Resin-2	68541-56-0		390	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		325	mg
			Supplier	Carbon Black (C)	1333-86-4		130	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9555	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		2600	mg
NTC	10.0	mg	Supplier	Silver (Ag)	7440-22-4		0.0979	mg
			Supplier	Tin (Sn)	7440-31-5		0.02	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		3.9169	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0999	mg
			В	Nickel (Ni)	7440-02-0		0.01	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		0.3997	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		5.4556	mg
Plating	110.0	mg	Supplier	Tin (Sn)	7440-31-5		110	mg
Wire Bond - Al	34.0	mg	Supplier	Aluminum (Al)	7429-90-5		34	mg
Wire Bond - Au	1.7	mg	Supplier	Gold (Au)	7440-57-5		1.7	mg

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).