ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and	mposition De 05. IPC, Bannockt d Pan-American co	c laration ourn, Illinois. A opyright conve	All rights reserved un ntions.	nder both	This docume level parts, tl	ent is a declaration er	on of the substance acompasses all lo	es within the man wer level materia	nufacturer liste ls for which th	ed item. Note: if le manufacturer	the item is an a has engineering	ssembly with low responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Type				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
upplier Information													
Company name* Company unique ID			ique ID	Unique ID Authority		ority	ity Resp		esponse Date*				
onsemi										2023-06-08			
Contact Name Title - Contact			ct		1	Phone - Contact*			Ema	Email - Contact*			
Product-Env-Stewards Product			Product Enviro Compliance			NA			Proc	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative			sentative		Phone - Representative* Email - Representative*								
Product-Env-Stewards Produc			viro Compliance			NA			Proc	Product-Env-Stewards@onsemi.com			
Requester Item Number Mfr Iter		n Number Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type		
	FNA415	FNA41560T2 IPM SPM45_V2 600		500V 15A LL		2023-06-08		СРА		11113.298	mg	Each	
Ianufacturing Proccess Infor	mation						-						
Terminal Plating / Grid Array Material Termina		erminal Base	Alloy J	J-STD-020 MSL Rating		Peak Process Body Temperatur		ture Max Time	at Peak Temp	erature Numbe	er of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU		CU Alloy	7 NA			0 C 30		se	seconds 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	(Pb), Mercury (Hg), Hexavalent Chro	oHS 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 hthalate (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 cornect 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 informationprovided by others in completing this form, and that Supplier may not have independently verified information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, itssuppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in the sparagraph. If the Company and the Supplier is builty and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Itability and the Company's remedies for uses that arise regarding information the Supplier provides in this form. In the absence of such written												
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 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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.												
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
Die	37.4431	mg	Supplier	Silicon (Si)	7440-21-3		37.4431	mg
Die Attach	2.3868	mg	Supplier	Silver (Ag)	7440-22-4		1.7901	mg
		-	Supplier	Phenolic Resin-2	54208-63-8		0.5967	mg
Die Attach Solder	43.092	mg	Supplier	Silver (Ag)	7440-22-4		1.0773	mg
			А	Lead (Pb)	7439-92-1	7a	39.8601	mg
			Supplier	Tin (Sn)	7440-31-5		2.1546	mg
Heat Sink Attach	23.1894	mg	Supplier	Dicyandiamine	461-58-5		1.6233	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.8552	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		19.711	mg
ead Frame	3510.64	mg	Supplier	Silver (Ag)	7440-22-4		884.6813	mg
			Supplier	Copper (Cu)	7440-50-8		2625.9585	mg
Mold Compound-Black	6269.7	mg	Supplier	Polymer(phenyl glycidil ether)-co- dicyclopentadiene	119345-05-0		250.788	mg
			Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'- tetramethylbiphenyl	85954-11-6		250.788	mg
			Supplier	Carbon Black (C)	1333-86-4		31.3485	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5423.2905	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		62.697	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		250.788	mg
Plating	60.7986	mg	Supplier	Tin (Sn)	7440-31-5		60.7986	mg
Substrate	1138.32	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1104.1704	mg
			Supplier	Silicon Dioxide (SiO2)	99493-55-7		11.3832	mg
			Supplier	Cobalt Oxide (CoO)	1307-96-6		11.3832	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		11.3832	mg
Thermistor	4.4737	mg	Supplier	Silver (Ag)	7440-22-4		0.3579	mg
			Supplier	Tin (Sn)	7440-31-5		0.076	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		1.1631	mg
			Supplier	Palladium (Pd)	7440-05-3		0.1521	mg
			Supplier	Iron Trioxide (Fe2O3)	1309-37-1		0.0002	mg
			В	Nickel (Ni)	7440-02-0		0.0313	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		0.7694	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		1.9236	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 signa range of distribution unless otherwise noted)

Wire Bond - Al	22.005	mg	Supplier	Aluminum (Al)	7429-90-5	22.005	mg
Wire Bond - Cu	1.2488	mg	Supplier	Copper (Cu)	7440-50-8	1.2488	mg