IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under international and Pan-American copyright conventions.			nder both				es within the man wer level materials					
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute								Materials and	rials and Mfg Information				
uppliei	r Information													
Company name*			Company unique ID			U	Unique ID Authority				Response Date*			
nsemi											2024-04-25			
ontact N	ame	Title - Contact			P	Phone - Contact*				Email - Contact*				
Product-I	Env-Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
uthorize	d Representative*	Title - Representative			P	Phone - Representative*			Emai	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			1	NA			Prod	Product-Env-Stewards@onsemi.com			
	Requester Item Number	Mfr Iten	n Number	Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
		FNA25012A IPM SPM34 12		IPM SPM34 1200	0V 50A 2		2024-04-25		CPA		49614.715	mg	Each	
lanufa	cturing Process Inform		Farminal Daga	Allow	-STD-020 MSI	Dating	Dools Decode	Dody Tampay	ture Moy Time o	t Dook Towns	matuma Numba	n of Doflow Cv	olog	
	8		Terminal Base Alloy J-STD-02 CU Alloy NA			z Kating	Peak Process Body Temperature Max Time  0 C 30		1.	leak Temperature Number of Reflow Cycles seconds 3				
omments	` /		CU Andy	I	\A		Į U		30	Sec	onus 3			
minents	)													
	information regarding materia	1	. 1											

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 information provided 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 suppliers 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 provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Standard Terms andConditions 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
Die	104.6	mg	Supplier	Silicon (Si)	7440-21-3		104.6	mg
Die Attach	195.0	mg	Supplier	Silver (Ag)	7440-22-4		5.85	mg
			Supplier	Tin (Sn)	7440-31-5		188.175	mg
			Supplier	Copper (Cu)	7440-50-8		0.975	mg
Die Attach Epoxy	1.85	mg	Supplier	Silver (Ag)	7440-22-4		1.702	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.148	mg
Die Attach Solder	1.7	mg	Supplier	Silver (Ag)	7440-22-4		0.0425	mg
			A	Lead (Pb)	7439-92-1	7a	1.5725	mg
			Supplier	Tin (Sn)	7440-31-5		0.085	mg
Heat Sink	6642.0	mg	Supplier	Aluminum (Al)	7429-90-5		6642	mg
Lead Frame	11022.5	mg	Supplier	Iron (Fe)	7439-89-6		16.5338	mg
			Supplier	Copper (Cu)	7440-50-8		11000.4551	mg
			Supplier	Phosphorus (P)	7723-14-0		5.5103	mg
Mold Compound-Black	31430.0	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		1571.5	mg
			Supplier	Carbon Black (C)	1333-86-4		314.3	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		27972.6992	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1571.5	mg
Plating	106.6	mg	Supplier	Tin (Sn)	7440-31-5		106.6	mg
Thermistor	10.0	mg	Supplier	Silver (Ag)	7440-22-4		0.8	mg
			Supplier	Tin (Sn)	7440-31-5		0.17	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		2.6	mg
			Supplier	Palladium (Pd)	7440-05-3		0.35	mg
			В	Nickel (Ni)	7440-02-0		0.08	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		1.7	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		4.3	mg
Wire Bond - Al	100.0	mg	Supplier	Aluminum (Al)	7429-90-5		100	mg
Wire Bond - Cu	0.463	mg	Supplier	Palladium (Pd)	7440-05-3		0.0093	mg
			Supplier	Copper (Cu)	7440-50-8		0.4537	mg