Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both 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 lower 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 Form Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information					
Supplie	r Information														
Company name*				Company 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-l	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Da	te Version Manufacturing Site		uring Site	V	Veight*	UOM	Unit Type	
		FNB50560TD1 IPM		IPM SPM55_V2 600V 5A			2023-06-08			СРА		7	213.295	mg	Each
Manufa	cturing Proccess Informat	ion													
	Terminal Plating / Grid Array Material Terminal B			Sase Alloy J-STD-020 MSL		_ Rating	Peak Process Body Temperatu		ure Max Time at Peak Tempera		Temperatu	ire Numbe	er of Reflow Cyc	cles	
	Matte Tin (Sn) - annealed		CU Alloy NA		NA		0 C		30 seco		secono	ls 3			
Comments	3														
				<u>-</u>		·					·				
or more	information regarding material o	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 (100 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 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 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 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 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).

<b>Homogeneous Material</b>	mogeneous Material Weight Unit of Measure		Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	23.0	mg	Supplier	Silicon (Si)	7440-21-3		23	mg
Die Attach Solder	13.0	mg	Supplier	Silver (Ag)	7440-22-4		0.325	mg
			A	Lead (Pb)	7439-92-1	7a	12.025	mg
			Supplier	Tin (Sn)	7440-31-5		0.65	mg
Lead Frame	2883.0	mg	Supplier	Silver (Ag)	7440-22-4		0.9802	mg
			Supplier	Iron (Fe)	7439-89-6		2.883	mg
			Supplier	Copper (Cu)	7440-50-8		2871.468	mg
			Supplier	Phosphorus (P)	7723-14-0		7.6688	mg
Mold Compound-Black	4187.0	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		20.935	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		167.48	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		209.35	mg
			Supplier	Carbon Black (C)	1333-86-4		20.935	mg
			Supplier	Silica (SiO2)	14464-46-1		3558.9502	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		209.35	mg
Plating	53.2947	mg	Supplier	Tin (Sn)	7440-31-5		53.2947	mg
Potting	36.0	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		30.6	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		1.8	mg
			Supplier	Calcium Carbonate (CCaO3)	471-34-1		3.6	mg
Wire Bond - Al	13.0	mg	Supplier	Aluminum (Al)	7429-90-5		13	mg
Wire Bond - Cu	5.0	mg	Supplier	Palladium (Pd)	7440-05-3		0.1	mg
			Supplier	Copper (Cu)	7440-50-8		4.9	mg