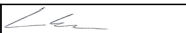


 Material Composition Declaration © Copyright 2005, IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.		This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level 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 http://www.ipc.org/IPC-175x			Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information			
Supplier Information										
Company name* onsemi			Company unique ID			Unique ID Authority		Response Date* 2022-10-28		
Contact Name Product-Env-Stewards			Title - Contact Product Enviro Compliance			Phone - Contact* NA		Email - Contact* Product-Env-Stewards@onsemi.com		
Authorized Representative* Product-Env-Stewards			Title - Representative Product Enviro Compliance			Phone - Representative* NA		Email - Representative* Product-Env-Stewards@onsemi.com		
	Requester Item Number	Mfr Item Number	Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
		FNB33060T	IPM SPM3V 600V 30A		2022-10-28		CPA	15120.577	mg	Each
Manufacturing Process Information										
	Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		Number of Reflow Cycles	
	Matte Tin (Sn) - annealed	CU Alloy	NA		0	C	30	seconds	3	
Comments										
For more information regarding material 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), 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 in excess 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 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 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 exclusive source of the Supplier’s liability 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 Standard Terms and Conditions of Sale applicable to such part shall apply.			
RoHS Declaration *	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions		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	Rastislav Drska		

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
DBC	2416.55	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		966.6201	mg
			B	Nickel (Ni)	7440-02-0		24.1655	mg
			Supplier	Copper (Cu)	7440-50-8		1425.7645	mg
Die	52.1228	mg	Supplier	Silicon (Si)	7440-21-3		52.1228	mg
Die Attach	21.549	mg	Supplier	Silver (Ag)	7440-22-4		0.6465	mg
			Supplier	Tin (Sn)	7440-31-5		20.7948	mg
			Supplier	Copper (Cu)	7440-50-8		0.1077	mg
Die Attach Epoxy	1.34901	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0135	mg
			Supplier	2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane	13561-08-5		0.1349	mg
			Supplier	Miscellaneous	Trade Secret		0.0675	mg
			Supplier	Silver (Ag)	7440-22-4		1.0522	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		0.0135	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0675	mg
Die Attach Solder	1.07957	mg	Supplier	Silver (Ag)	7440-22-4		0.027	mg
			A	Lead (Pb)	7439-92-1	7a	0.9986	mg
			Supplier	Tin (Sn)	7440-31-5		0.054	mg
Lead Frame	3026.94	mg	Supplier	Silver (Ag)	7440-22-4		0.0303	mg
			Supplier	Iron (Fe)	7439-89-6		3.0269	mg
			Supplier	Copper (Cu)	7440-50-8		3022.9746	mg
			Supplier	Phosphorus (P)	7723-14-0		0.9081	mg
Mold Compound-Black	9436.02	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		471.801	mg
			Supplier	Carbon Black (C)	1333-86-4		94.3602	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8398.0576	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		471.801	mg
Plating	113.724	mg	Supplier	Tin (Sn)	7440-31-5		113.724	mg
Wire Bond - Al	50.409	mg	Supplier	Aluminum (Al)	7429-90-5		50.409	mg
Wire Bond - Cu	0.83371	mg	Supplier	Copper (Cu)	7440-50-8		0.8337	mg