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.									
	IPC Web Site for Information on IPC 1752 Standard Form Type				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ous Materia	ials and Mfg Information			
Supplier Information														
Company name*	Company uni	Company unique ID			Unique ID Authority					Response Date*				
onsemi										2023-06-08				
Contact Name	Title - Contac	Title - Contact			Phone - Contact*				Email - Contact*					
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com				
Authorized Representative*	Title - Repres	Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards	Product Envir	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Requester Item Number Mfr Iten		em Number	Number Mfr Item Name			Effective Date	ctive Date		W	eight*	UOM	Unit Type		
	FSDM	FSDM0465RBWDTU Green Mode		,		2023-06-08			PBB		22	39.009	mg	Each
Manufacturing Procces	s Information						,				1			,
Terminal Plating / Grid Array Material To		Terminal Base A	erminal Base Alloy J-STD		Rating	Peak Process Bo		Body Temperature Max Time at Peak		Temperatur	e Numbe	er of Reflow Cyc	eles	
Matte Tin (Sn) - annealed		CU Alloy	CU Alloy NA			0		C	30		seconds	3		
Comments	<u> </u>													
or more information regard	ng material compositi	on 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).										
cadmium, hexavalentchromium, polybrominal contains a RoHS restricted substance inexcess encompass all such components. Supplier certi as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided by certification in this paragraph. If the Company	ted biphenyls and/or polybrominated diphenyls of an applicable quantity limit, please indication in the graph of an applicable quantity limit, please indications. Supplier acknowledges that Company will we relied on information provided by others in a minimum and the Supplier agrees that, at a minimum and the Supplier enter into a written agreem source of the Supplier's liability and the Company of the Supplier's liability and the Supplier's liability and the Supplier's liability and the Company of the Supplier's liability and the Supplier's liabi	J 2011/65/EU and implemented by the laws of the Eyl ethers (each a "RoHS restricted substance") in exate below which, if any, RoHS exemption you belie les in this form using appropriate methods to ensure rely on this certification in determining the complian completing this form, and that Supplier may not ha, its suppliers have provided certifications regarding tent with respect to the identified part, the terms and impany's remedies for issues that arise regarding info cable to such part shall apply.	cess of the applicable quantity limit identified ab we may apply. If the part is an assembly with low its accuracy and that such information is true an- unce of its products with European Union member ave independently verified such information. Ho their contributions to the part, and those certifications conditions of that agreement, including any warr	ove. If a homogeneous material within the part ver 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 substance	es per the definition above except for selected exemp	otions 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	-6_								

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	9.8	mg	Supplier	Silicon (Si)	7440-21-3		9.8	mg
Die Attach Epoxy	0.254	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0076	mg
			Supplier	Miscellaneous	Trade Secret		0.0127	mg
			Supplier	Silver (Ag)	7440-22-4		0.2159	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0178	mg
Die Attach Solder	3.061	mg	Supplier	Silver (Ag)	7440-22-4		0.0765	mg
			A	Lead (Pb)	7439-92-1	7a	2.8314	mg
			Supplier	Tin (Sn)	7440-31-5		0.1531	mg
Lead Frame	1264.59	mg	Supplier	Silver (Ag)	7440-22-4		2.91	mg
			Supplier	Tin (Sn)	7440-31-5		1.55	mg
			Supplier	Copper (Cu)	7440-50-8		1260.0045	mg
			Supplier	Phosphorus (P)	7723-14-0		0.1255	mg
Mold Compound-Black	950.0	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		114	mg
			Supplier	Carbon Black (C)	1333-86-4		4.75	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		831.25	mg
Plating	11.0	mg	Supplier	Tin (Sn)	7440-31-5		11	mg
Wire Bond - Cu	0.304	mg	Supplier	Copper (Cu)	7440-50-8		0.304	mg