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.							
	IDC Web Site for Information on IDC 1752 Standard Form Type			* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials				ls and Mfg Information			
Supplier Information											
company name*  Company unique ID				Unique ID Authority			Response Date*	Response Date*			
onsemi				2023-06-08							
Contact Name				Phone - Con	Phone - Contact*			Email - Contact*			
Product-Env-Stewards Product Enviro Compliance				NA			Product-Env-St	Product-Env-Stewards@onsemi.com			
Authorized Representative*	norized Representative* Title - Representative			Phone - Representative*			Email - Represen	Email - Representative*			
Product-Env-Stewards	Product Envi	oduct Enviro Compliance		NA	NA			Product-Env-Stewards@onsemi.com			
Requester Item Number Mfr	Item Number	Mfr Item Name		Effective Da	te Version	Manufacturing Site	Weight*	UOM	Unit Type		
FSL	17MRIN	7MRIN Power Switcher		2023-06-08		TAD	496.0	mg	Each		
Manufacturing Proccess Information				,							
Terminal Plating / Grid Array Material	Terminal Base Alloy J-STD-0		TD-020 MSL Rating	Peak Pr	Peak Process Body Temperature Max Tim		eak Temperature Nu	mber of Reflow Cy	cles		
Matte Tin (Sn) - annealed	Matte Tin (Sn) - annealed CU Alloy		1	0	C	30	seconds 3				
Comments											
or more information regarding material composit	ion nlease refer to	nage 3									

RoHS Material Composition Declaration			Declaration Type *	Detail	ed				
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 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 such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the Supplier supplier 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 of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.									
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted				
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.									
Exemption List Version	EL-2011/534/EU								
Declaration Signature									
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the				

## **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	9.28	mg	Supplier	Silicon (Si)	7440-21-3		9.28	mg
Die Attach	0.398	mg	Supplier	Silver (Ag)	7440-22-4		0.302	mg
			Supplier	Dicyandiamine	461-58-5		0.001	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		0.083	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.012	mg
Lead Frame	158.72	mg	Supplier	Silver (Ag)	7440-22-4		4.762	mg
			Supplier	Zinc (Zn)	7440-66-6		0.238	mg
			Supplier	Iron (Fe)	7439-89-6		3.333	mg
			Supplier	Copper (Cu)	7440-50-8		150.149	mg
			Supplier	Phosphorus (P)	7723-14-0		0.238	mg
Mold Compound-Black	312.226		Supplier	Ortho Cresol Novolac Resin	29690-82-2		37.4681	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		15.611	mg
			Supplier	Carbon Black (C)	1333-86-4		3.122	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		249.7799	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		6.245	mg
Plating	14.88	mg	Supplier	Tin (Sn)	7440-31-5		14.88	mg
Wire Bond - Au	0.496	mg	Supplier	Gold (Au)	7440-57-5		0.496	mg