ASSOCIATION CONNECTINE	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 lowel level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Form Typ Distribute					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information				
Supplier Inform	ation														
Company name*			Company un	Company unique ID			Unique ID Authority					Response Date*			
nsemi										2	2023-06-08				
Contact Name		Title - Contact			1	Phone - Contact*]	Email - Contact*				
Product-Env-Stewa	ards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			1	Phone - Representative*]	Email - Representative*			
Product-Env-Stewards			Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
Requeste	er Item Number			Mfr Item Name			Effective Date	e Vers	ion	Manufacturing Site		We	ight*	UOM	Unit Type
				Integrated Driver	er & MOSFET		2023-06-08	023-06-08 PH1			98.65		mg	Each	
lanufacturing	Proccess Informatio	n													
Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD		J-STD-020 M	SL Rating	Peak Process Body		ly Temperat	Temperature Max Time at Peak		emperature	Numb	er of Reflow Cyc	les	
Matte Tin (Sn) - annealed		C	CU Alloy 3			260 C		30		seconds	3				
omments															
TTENTION: MSI	3 Rated item requires B	ake and D	ry Pack (afte	r electrical test)											
or more informati	on regarding material co	mposition j	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed						
irective 2015/863/EU amending RoHS irective 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 dipheny of an applicable quantity limit, please indicate fies that it gathered the information it provident. Supplier acknowledges that Company will we relied on information provided by others in the supplier agrees that, at a minimum and the Supplier enter into a written agreements ource of the Supplier's liability and the Com-	2011/65/EU and implemented by the laws of the End ethers (each a "RoHS restricted substance") in except the below which, if any, RoHS exemption you believe in this form using appropriate methods to ensure rely on this certification in determining the compliant completing this form, and that Supplier may not have its suppliers have provided certifications regarding ent with respect to the identified part, the terms and capany's remedies for issues that arise regarding information in the provided certification in	sess of the applicable quantity limit identified able may apply. If the part is an assembly with low its accuracy and that such information is true annee of its products with European Union member ave independently verified such information. However, their contributions to the part, and those certifications of that agreement, including any warr	bove. 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. It is involved in situations where Supplier has not ations are at least as comprehensive as the ranty rights and/or remedies provided as part of						
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	8.0	mg	Supplier	Silicon (Si)	7440-21-3		8	mg
Die Attach Solder	12.0	mg	Supplier	Silver (Ag)	7440-22-4		0.3	mg
			A	Lead (Pb)	7439-92-1	7a	11.1	mg
			Supplier	Tin (Sn)	7440-31-5		0.6	mg
Lead Frame	50.35	mg	Supplier	Silver (Ag)	7440-22-4		1.3594	mg
			Supplier	Tin (Sn)	7440-31-5		0.1208	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0957	mg
			Supplier	Chromium (Cr)	7440-47-3		0.146	mg
			Supplier	Copper (Cu)	7440-50-8		48.628	mg
Mold Compound-Black	26.0	mg		Epoxy resin	proprietary data		1.222	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.6	mg
			Supplier	Carbon Black (C)	1333-86-4		0.026	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		20.93	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.222	mg
Plating	1.8	mg	Supplier	Tin (Sn)	7440-31-5		1.8	mg
Wire Bond - Au	0.5	mg	Supplier	Gold (Au)	7440-57-5		0.5	mg