IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under be 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					Form Type Distribute	Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					erials and	ials and Mfg Information			
upplie	r Information														
Company name*				Company unique ID			Unique ID Authority					Response Date*			
nsemi											2023-0	2023-06-08			
Contact N	Name	Title - Contact			I	Phone - Contact*				Email	Email - Contact*				
?roduct-l	Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*	Title - Representative			I	Phone - Representative*				Email	Email - Representative*				
Product-l	Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date	ective Date			Weight*	UOM	Unit Type		
		FL73282	282MX 900V HB Gate Drive		iver		2023-06-08		TAD			81.0	mg	Each	
Ianufa	acturing Proccess Inform	ation													
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-		-STD-020 MSL	Rating	Peak Process Body Tempe		/ Temperatur	ture Max Time at Peak Temper		ature Numb	er of Reflow Cyo	eles	
Matte Tin (Sn) - annealed		CU Alloy 1				260	C		30		onds 3				
omments	S														
<u>vel 1 - m</u>	naximum time at peak tempera	ture during so	ldering is 10-3	30 seconds											
or more	information regarding materi	al composition	please refer to	o page 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 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 exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this for											
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	2.38	mg	Supplier	Silicon (Si)	7440-21-3		2.38	mg
Die Attach	0.065	mg		Epoxy resin	proprietary data		0.0065	mg
			Supplier	Silver (Ag)	7440-22-4		0.052	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0065	mg
Lead Frame	25.92	mg	Supplier	Silver (Ag)	7440-22-4		0.2074	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0259	mg
			Supplier	Iron (Fe)	7439-89-6		0.5443	mg
			Supplier	Copper (Cu)	7440-50-8		25.1165	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0259	mg
Mold Compound-Black	50.124	mg		Epoxy resin	proprietary data		3.5087	mg
			Supplier	Phenolic Resin	Proprietary Data		1.5037	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.0124	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2506	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		39.8486	mg
Plating	2.43	mg	Supplier	Tin (Sn)	7440-31-5		2.43	mg
Wire Bond - Au	0.081	mg	Supplier	Gold (Au)	7440-57-5		0.081	mg