IPC ASSOCIATION ELECTRONIC	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					Form Type Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater				eous Materia	ials and Mfg Information				
Supplie	r Information														
Company	name*	Company un	Company unique ID			Unique ID Authority					Response Date*				
nsemi												2024-05-04			
Contact N	Jame		Title - Contact			1	Phone - Contact*					Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*		Title - Representative]	Phone - Representative*				Email - Representative*				
Product-	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Dat	te Version Manufacturing Site		ring Site	V	Veight*	UOM	Unit Type	
		2N5686G		BIP T03 NPN 50A 80V			2024-05-04		1	MX5		1	3309.014	mg	Each
I anufa	cturing Proccess Informat	tion													
	Terminal Plating / Grid Array Material		Cerminal Base Alloy J-STD-02		-STD-020 MSL	Rating	Peak Process Body Tempera		Temperatu	ture Max Time at Peak Temp		Temperati	are Numbe	er of Reflow Cyc	cles
SnAgCu		CU Alloy NA			0 C		30 secon		secono	is 3					
omments	3														
or more	information regarding material	composition j	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 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 knowledges 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 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 Standard Terms and Conditions of Sale applicable to such part shall apply.											
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	40.0	mg	Supplier	Silicon (Si)	7440-21-3		40	mg
Die Attach	2091.12	mg	Supplier	Indium (In)	7440-74-6		104.556	mg
			Supplier	Silver (Ag)	7440-22-4		62.7336	mg
			A	Lead (Pb)	7439-92-1	7a	1923.8306	mg
Lead Frame	11138.1	mg	В	Nickel (Ni)	7440-02-0		111.381	mg
			Supplier	Iron (Fe)	7439-89-6		11026.7188	mg
Plating	38.83	mg	Supplier	Silver (Ag)	7440-22-4		1.1649	mg
			Supplier	Tin (Sn)	7440-31-5		37.471	mg
			Supplier	Copper (Cu)	7440-50-8		0.1942	mg
Wire Bond - Al	0.964	mg	Supplier	Aluminum (Al)	7429-90-5		0.964	mg