IPC ASSOCIATION ELECTRONICS	Material Com © Copyright 2005. international and P	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.										
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typhttp://www.ipc.org/IPC-175x Distribute				e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplier	• Information														
Company name*			Company unique ID			Ţ	Unique ID Authority					Response Date*			
nsemi												2024-05-18			
ontact Na	ame	Title - Contact			I	Phone - Contact*				Email - Contact*					
roduct-E	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorized	d Representative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
roduct-E	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number		Mfr Item Number Mfr Item Name					Versi	on	Manufacturing Site		1	Weight*	UOM	Unit Type
		2N5686G BIP T03 NPN 50		BIP T03 NPN 50A	\ 80V		2024-05-18 MX5				1	13309.014	mg	Each	
	cturing Process Information		Terminal Base	Alloy	-STD-020 MS	I. Rating	Peak Proc	ess Body	v Temperat	ure Max T	ime at Peak '	Temperat	ure Number	of Reflow Cyc	eles
	8		CU Allov NA			nd Ruting	Peak Process Body Temperature  0 C		30 second			of Renow Cyt			
omments	8		o c ranoj	1	·				10	100		Becom	e		
r moro i	nformation regarding materia	l composition	nlease refer t	o nage 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 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 * 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