IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	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 Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ous Materia	ials and Mfg Information				
upplier Inform	ation														
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
nsemi												2024-05-03			
ontact Name			Title - Contact			1	Phone - Contact*					Email - Contact*			
Product-Env-Stewards			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				
Requester	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective Dat	e Ver	rsion	Manufacturing Site		1	Weight*	UOM	Unit Type
		NGTB10N60FG NCH IGBT 10A 60		00V TO220F3	BFS	2024-05-03	24-05-03 KR8			1	1743.17	mg	Each		
	Process Information				GEN 000 145					1			- I		
3					STD-020 MS	L Rating		cess Bo	ody Temperat		me at Peak	T .		er of Reflow Cyc	eles
•	n (Sn) - annealed	C	U Alloy	N	A		0		C	30		secon	ds   3		
omments															
r more informatio	on regarding material co	mposition p	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU											
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 provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Standard Terms and Conditions of Sale applicable to suc											
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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.											
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	1.05	mg	Supplier	Silicon (Si)	7440-21-3		1.05	mg
Die Attach	1.63	mg	Supplier	Silver (Ag)	7440-22-4		0.0244	mg
			A	Lead (Pb)	7439-92-1	7a	1.524	mg
			Supplier	Tin (Sn)	7440-31-5		0.0815	mg
Lead Frame	668.0	mg	Supplier	Iron (Fe)	7439-89-6		0.668	mg
			Supplier	Copper (Cu)	7440-50-8		667.1316	mg
			Supplier	Phosphorus (P)	7723-14-0		0.2004	mg
Mold Compound-Black	1054.6	mg		Phenolic Resin	proprietary data		52.73	mg
			Supplier	Carbon Black (C)	1333-86-4		5.273	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		58.003	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		73.822	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		73.822	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		790.95	mg
Plating	10.01	mg	Supplier	Tin (Sn)	7440-31-5		10.01	mg
Wire Bond - Al	7.88	mg	Supplier	Aluminum (Al)	7429-90-5		7.88	mg