IPC ASSOCIATION CONNE	© Copyright 2005. I	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe 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 Materi				ials and Mfg Information				
upplier Info	ormation				·				·					
Company name*			Company unique ID			J	Unique ID Authority				Response Date*			
onsemi											2024-05-18			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-St	ewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorized Repi	resentative*	Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
Requ	Requester Item Number		Number	Mfr Item Name			Effective Date	Version	rsion Manufacturing Site		V	Veight*	UOM	Unit Type
		NTBLS1D5N10MCT PTNG 100V :		PTNG 100V STD	D TOLL		2024-05-18	5-18 PBB		8	12.74	mg	Each	
Ianufacturi	ng Proccess Informa	tion												
Terminal Plating / Grid Array Material Term			erminal Base Alloy J-STD-020 MSL I			L Rating	Peak Process Body Temperature Max Time at Pea			Max Time at Peak	Temperatu	re Numb	per of Reflow Cyc	eles
Matte Tin (Sn) - annealed		C	CU Alloy 1				260	260 C		30	secono	ls 3		
omments														
vel 1 - maximu	m time at peak temperat	ure during sol	dering is 10-3	0 seconds										
or more inform	nation regarding material	composition	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 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 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 suppliers 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 Islability and the Company's remedies for issues that arise regarding information the Supplier pro										
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substance	es per the definition above except for selected exemp	otions 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	-6_								

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	7.57	mg	Supplier	Silicon (Si)	7440-21-3		7.57	mg
Die Attach Solder	8.69		Supplier	Silver (Ag)	7440-22-4		0.2172	mg
			A	Lead (Pb)	7439-92-1	7a	8.2989	mg
			Supplier	Tin (Sn)	7440-31-5		0.1738	mg
Lead Frame	474.56	mg	В	Nickel (Ni)	7440-02-0		0.2373	mg
			Supplier	Iron (Fe)	7439-89-6		0.4746	mg
			Supplier	Copper (Cu)	7440-50-8		473.7058	mg
			Supplier	Phosphorus (P)	7723-14-0		0.1424	mg
Mold Compound-Black	313.63	mg		Proprietary	proprietary data		25.0904	mg
			Supplier	Carbon Black (C)	1333-86-4		1.5682	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		286.9715	mg
Plating	8.12	mg	Supplier	Tin (Sn)	7440-31-5		8.12	mg
Wire Bond - Al	0.17	mg	Supplier	Aluminum (Al)	7429-90-5		0.17	mg