IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under binternational and Pan-American copyright conventions.		nder both le	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lo level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
752-21.1					Form Type * Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ıs Materials	ials and Mfg Information			
Supplie	r Information														
Company name*				Company unique ID			Unique ID Authority					Response Date*			
nsemi												2022-02-11			
Contact N	lame		Title - Conta	Title - Contact			Phone - Contact*				I	Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance			ľ	NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*		Title - Representative			P	Phone - Representative*				I	Email - Representative*			
Product-	Env-Stewards		Product Enviro Compliance			ı	NA					Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Version	N	Manufacturing Site		We	ight*	UOM	Unit Type
		NTMT190N65S3H SF3 FAST, 190moh		ohm, PQFN88	:	2022-02-11		PBB			155	.85	mg	Each	
Ianufa	acturing Proccess Inform														
			•		-STD-020 MSL F	Rating		ess Body T	ss Body Temperature Max Time at Peak		e at Peak To			er of Reflow Cyc	eles
	Matte Tin (Sn) - annealed		CU Alloy	1			260		C	30		seconds	3		
omments															
	naximum time at peak temper														
or more	information regarding mater	ial composition	please refer t	o 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 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	9.31	mg	Supplier	Silicon (Si)	7440-21-3		9.31	mg
Die Attach Solder	5.14	mg	Supplier	Silver (Ag)	7440-22-4		0.1285	mg
			A	Lead (Pb)	7439-92-1	7a	4.7545	mg
			Supplier	Tin (Sn)	7440-31-5		0.257	mg
Lead Frame	23.87	mg	Supplier	Zinc (Zn)	7440-66-6		0.0286	mg
			В	Nickel (Ni)	7440-02-0		0.0191	mg
			Supplier	Iron (Fe)	7439-89-6		0.5609	mg
			Supplier	Copper (Cu)	7440-50-8		23.2542	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0072	mg
Mold Compound-Black	112.14	mg		Epoxy resin	proprietary data		6.7284	mg
			Supplier	Phenolic Resin	Proprietary Data		6.7284	mg
			Supplier	Carbon Black (C)	1333-86-4		0.5607	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		95.319	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		2.8035	mg
Plating	3.7	mg	Supplier	Tin (Sn)	7440-31-5		3.7	mg
Wire Bond - Al	1.69	mg	Supplier	Aluminum (Al)	7429-90-5		1.69	mg