IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international 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 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 Ty http://www.ipc.org/IPC-175x Distribut				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				Materials and	ials and Mfg Information				
Supplie	r Information														
Company name*			Company unique ID			U	Unique ID Authority				Resp	Response Date*			
nsemi										2024	2024-04-19				
Contact N	Name	Title - Contact			P	Phone - Contact*				Ema	Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance			1	NA				Prod	Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*	Title - Representative			P	Phone - Representative*				Ema	Email - Representative*				
Product-l	Env-Stewards	Product Enviro Compliance			1	NA				Prod	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site		ite	Weight*	UOM	Unit Type		
		NDT451	NDT451AN 30V N-FET 35 MO		O SOT223		2024-04-19		РВВ			118.973	mg	Each	
Ianufa	acturing Process Inform													·	
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD		-STD-020 MSL I	Rating	Peak Process Body Temperatur		Γ'	Max Time at	Peak Tempe	erature Numb	er of Reflow Cy	eles	
Matte Tin (Sn) - annealed			CU Alloy 1				260		C	30	se	conds 3			
omments	•														
vel 1 - m	naximum time at peak tempera	ture during so	ldering is 10-3	30 seconds											
or more	information regarding materi	al composition	please refer to	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 (100 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, 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 keloardin shall encompass all such components. 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, itssuppliers 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 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	1.54	mg	Supplier	Silicon (Si)	7440-21-3		1.54	mg
Die Attach Solder	0.541	mg	Supplier	Silver (Ag)	7440-22-4		0.0135	mg
			A	Lead (Pb)	7439-92-1	7a	0.5004	mg
			Supplier	Tin (Sn)	7440-31-5		0.027	mg
Lead Frame	66.944	mg	Supplier	Silver (Ag)	7440-22-4		0.234	mg
			Supplier	Zinc (Zn)	7440-66-6		0.08	mg
			Supplier	Iron (Fe)	7439-89-6		1.61	mg
			Supplier	Copper (Cu)	7440-50-8		65	mg
			Supplier	Phosphorus (P)	7723-14-0		0.02	mg
Mold Compound-Black	41.108		В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		0.4111	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		6.1662	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.0277	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		30.0088	mg
			Supplier	Silica (SiO2)	14464-46-1		0.2055	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		3.0831	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2055	mg
Plating	8.29	mg	Supplier	Tin (Sn)	7440-31-5		8.29	mg
Wire Bond - Au	0.55	mg	Supplier	Gold (Au)	7440-57-5		0.55	mg