ASSOCIATION CONNECTION ELECTRONICS INDUSTRIES	Material Compos © Copyright 2005. IPC international and Pan-A	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 Materi					als and Mfg Information			
upplier Inforn									<u> </u>					
Company name*			Company unique ID			Unique ID Authority				Response Date*				
onsemi											2024-05-05			
Contact Name			Title - Contact			Phone - C	Phone - Contact*				Email - Contact*			
Product-Env-Stew	ards		Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
uthorized Repres	entative*		Title - Representative			Phone - Representative*				Email - Representative*				
Product-Env-Stew	ards		Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Request	Requester Item Number Mfr Ite		Number	Mfr Item Name		Effective	Effective Date		Ianufacturing Site		Weight*	UOM	Unit Type	
		NTD280N60S5Z SF		SF5 600V Easy zener 280mohm with DPAK		2024-05-0	05		C	СРА		327.492	mg	Each
Ianufacturing	Proccess Informatio	n												
Terminal Plating / Grid Array Material		ial T	Cerminal Base Alloy J-STD-020 MSL		-STD-020 MSL Rating	Peak Process Body Tempera		erature	e Max Time at Peak	Tempera	ture Numb	er of Reflow Cyc	eles	
Matte Tin (Sn) - annealed		C	CU Alloy 1			260 C			30	secor	nds 3			
omments														
vel 1 - maximum	time at peak temperature	during sol	dering is 10-3	0 seconds										
or more informati	on regarding material co	nposition j	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 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 of Supplier's Standard Terms andConditions 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	4.02	mg	Supplier	Silicon (Si)	7440-21-3		4.02	mg
Die Attach Solder	2.847		Supplier	Silver (Ag)	7440-22-4		0.0712	mg
			A	Lead (Pb)	7439-92-1	7a	2.6335	mg
			Supplier	Tin (Sn)	7440-31-5		0.1424	mg
Lead Frame	167.854		Supplier	Tin (Sn)	7440-31-5		0.168	mg
			В	Nickel (Ni)	7440-02-0		0.168	mg
			Supplier	Copper (Cu)	7440-50-8		167.518	mg
Mold Compound-Black	150.838	mg		Epoxy resin	proprietary data		9.0503	mg
			Supplier	Phenolic Resin	Proprietary Data		9.0503	mg
			Supplier	Carbon Black (C)	1333-86-4		0.7542	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		128.2123	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		3.771	mg
Plating	1.092	mg	Supplier	Tin (Sn)	7440-31-5		1.092	mg
Wire Bond - Al	0.841	mg	Supplier	Aluminum (Al)	7429-90-5		0.841	mg