ASSOCIATION CONN	© Copyright 2005.	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 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 Typ http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and Mfc Information				
upplier Inf	formation	,							,					
Company name*			Company unique ID			τ	Unique ID Authority				Response Date*			
onsemi											2024-04-16			
Contact Name			Title - Contact			P	Phone - Contact*				Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			1	NA NA				Product-Env-Stewards@onsemi.com			
authorized Rep	presentative*	Title - Representative			P	Phone - Representative*			Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
Req	Requester Item Number Mfr It		m Number Mfr Item Name			Effectiv		Version	N	Manufacturing Site	W	eight*	UOM	Unit Type
		FDMS66	581Z	ST3 Pch with Zener	r		2024-04-16		C	ĽNJ	10	4.003	mg	Each
	ring Process Informa						I				_			
2			Cerminal Base Alloy J-STD-020 MSL		Rating	Peak Process Body Temperature					er of Reflow Cyc	eles		
•	te Tin (Sn) - annealed		CU Alloy	1			260		C	30	seconds	3		
omments														
	num time at peak temperat													
or more infort	mation regarding materia	l composition	please refer t	o page 3										

RoHS Material Composition Declaration			Declaration Type *	Detailed						
irective 2015/863/EU amending RoHS irective 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 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 have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale app										
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	5.09	mg	Supplier	Silicon (Si)	7440-21-3		5.09	mg
Die Attach Solder	3.92	mg	Supplier	Silver (Ag)	7440-22-4		0.098	mg
			A	Lead (Pb)	7439-92-1	7a	3.626	mg
			Supplier	Tin (Sn)	7440-31-5		0.196	mg
Lead Frame	44.88	mg	Supplier	Silver (Ag)	7440-22-4		0.1346	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0539	mg
			Supplier	Iron (Fe)	7439-89-6		1.0547	mg
			Supplier	Copper (Cu)	7440-50-8		43.6234	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0135	mg
Mold Compound-Black	47.25	mg	Supplier	Carbon Black (C)	1333-86-4		0.2362	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.3438	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		2.835	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		2.835	mg
Plating	0.445	mg	Supplier	Tin (Sn)	7440-31-5		0.445	mg
Wire Bond - Al	2.364	mg	Supplier	Aluminum (Al)	7429-90-5		2.364	mg
Wire Bond - Cu	0.054	mg	Supplier	Copper (Cu)	7440-50-8		0.054	mg