PC SOCIATION CONNECTING CTRONICS INDUSTRIES* 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 lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
IPC Web Site for Information on IPC-1752 Standard Form			Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					ation					
upplier Information														
Company name* Company unit			ique ID U!			Unique ID Authority				Respor	Response Date*			
onsemi										2023-06-08				
Contact Name	tet Name Title - Contact					Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Product Enviro Comp			ro Compliance	Compliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Representat			entative !			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Produc			roduct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	n Number Mfr Item Number		umber Mfr Item Name			Effective Date	Version	Manufacturing Site			Weight*	UOM	Unit Type	
	ESD5Z5	D5Z5.0T5G SOD-523 EUT SNG		NGL CU PBF		2023-06-08	5-08 CI		CN1		1.734	mg	Each	
Ianufacturing Proccess Informat	ion		·			•								
Terminal Plating / Grid Array Mat	terial T	Terminal Base Alloy J-S		J-STD-020 MSI	Rating	Peak Process Body Tempera		emperature	ure Max Time at Peak Temper		ture Num	ber of Reflow Cyc	cles	
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30	seco	nds 3				
omments														
vel 1 - maximum time at peak temperatu	re during so	dering is 10-3	0 seconds											
or more information regarding material o	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).										
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	on above	Supplier Acceptance	* Accepted							
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav Drska	Le									

## 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.

sigma range of distribution unless otherwise noted).									
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	0.04	mg	Supplier	Silicon (Si)	7440-21-3		0.04	mg	
Lead Frame	0.58	mg	В	Nickel (Ni)	7440-02-0		0.221	mg	
			Supplier	Iron (Fe)	7439-89-6		0.3051	mg	
			Supplier	Copper (Cu)	7440-50-8		0.0539	mg	
Mold Compound-Black	1.08	mg	Supplier	Boron zinc hydroxide oxide	138265-88-0		0.0324	mg	
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0054	mg	
			Supplier	2,4,6-triamino-1,3,5-triazine isocyanuric acid	37640-57-6		0.0324	mg	
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.864	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.0108	mg	
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.0864	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0486	mg	
Plating	0.03	mg	Supplier	Tin (Sn)	7440-31-5		0.03	mg	
Wire Bond - Cu	0.004	mg	Supplier	Copper (Cu)	7440-50-8		0.004	mg	

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 signa range of distribution unless otherwise noted)