IPC ASSOCIATION CONNECTIN	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 lowe 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 Materi					ials and Mfc Information			
upplier Inforn	nation													
Company name*			Company unique ID			J	Unique ID Authority				Response Date*			
nsemi											2023-06-08			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-Stewa	ards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorized Represe	entative*	Title - Representative			I	Phone - Representative*			Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
Request	er Item Number			Mfr Item Name			Effective Date	Version	Manufacturing Site		Wei	ight*	UOM	Unit Type
				LOW CAP TSOP-6	OP-6 DIODE TVS		2023-06-08	-08 MY1		13.4	13	mg	Each	
	Process Information			A11	CTD 020 MCI	Datin -	Davida Dava	D- d T		May Time at Deale	T	Nous	The first Court	1
		,		STD-020 MSL	. Rating	Peak Process Body Tempers		T *				er of Reflow Cyc	les	
•	in (Sn) - annealed	C	U Alloy	1			260		<u> C</u>	30	seconds	3		
omments														
	time at peak temperature													
ır more informati	on regarding material co	omposition p	please refer t	o page 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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 is true and correction this form using appropriate methods to ensure its accuracy and that such information is true and correction to the best of its knowledge 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 has not or 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 liability and the Company's remedies for issues that arise regarding information the Supp											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the						

## **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	0.67	mg	Supplier	Silicon (Si)	7440-21-3		0.67	mg
Die Attach	0.15	mg		Epoxy resin	proprietary data		0.015	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.0075	mg
			Supplier	Silver (Ag)	7440-22-4		0.12	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0075	mg
Lead Frame	2.4		Supplier	Silver (Ag)	7440-22-4		0.0696	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0029	mg
			Supplier	Iron (Fe)	7439-89-6		0.0564	mg
			Supplier	Copper (Cu)	7440-50-8		2.2711	mg
Mold Compound-Black	10.0			Epoxy resin	proprietary data		0.5	mg
			Supplier	Phenolic Resin	Proprietary Data		0.5	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.2	mg
			Supplier	Carbon Black (C)	1333-86-4		0.05	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.75	mg
Plating	0.13	mg	Supplier	Tin (Sn)	7440-31-5		0.13	mg
Wire Bond - Au	0.08	mg	Supplier	Gold (Au)	7440-57-5		0.08	mg