ABSOCIATION CONNECTING ELECTRADUCS INDUSTRIES® Material Composition © Copyright 2005. IPC, Bann international and Pan-Americ	ockburn, Illinois. A	All rights reserved un ntions.	nder both	This docume level parts, t	ent is a declaration e	on of the su	bstances v all lower	vithin the manufactur level materials for wh	er listed i hich the r	tem. Note: if nanufacturer	the item is an as has engineering	sembly with lower responsibility.	
	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				
Supplier Information													
Company name* Company unique ID			Unique I			e ID Authority			Response Date*				
nsemi									2023-06-08				
Contact Name	tet Name Title - Contact			]	Phone - Contact*				Email - Contact*				
roduct-Env-Stewards Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - Representative				Phone - Representative*				Email - Representative*					
Product-Env-Stewards Product Enviro Co			o Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Number Mfr	Item Number	Mfr Item Name		· · ·	Effective Date	Version	М	Manufacturing Site		Weight*	UOM	Unit Type	
TL4	31BIDG	DG ANA 2.5V PROG SHUNT R			2023-06-08		C	CNW		71.99	mg	Each	
Manufacturing Proccess Information													
Terminal Plating / Grid Array Material	terial Terminal Base Alloy J-S		-STD-020 MSL	Rating	Peak Proc	Process Body Temperature Max Time at Peak		Tempera	ure Numb	er of Reflow Cyc	eles		
Matte Tin (Sn) - annealed CU Alloy 1					260		С	30	secor	ids 3			
Comments													
evel 1 - maximum time at peak temperature durin	g soldering is 10-3	0 seconds											
For more information regarding material composi	ion 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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).										
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	ances per the definitio	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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg
Die Attach	2.4	mg		Epoxy resin	proprietary data		0.06	mg
			Supplier	Silver (Ag)	7440-22-4		1.92	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.156	mg
			Supplier	Acrylic resins	Proprietary Data		0.264	mg
Lead Frame	37.61	mg	Supplier	Silver (Ag)	7440-22-4		0.2257	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0451	mg
			Supplier	Iron (Fe)	7439-89-6		0.8838	mg
			Supplier	Copper (Cu)	7440-50-8		36.4441	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0113	mg
Mold Compound-Black	28.58	mg	Supplier	Carbon Black (C)	1333-86-4		0.1429	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		25.0075	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		1.7148	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.7148	mg
Plating	1.89	mg	Supplier	Tin (Sn)	7440-31-5		1.89	mg
Wire Bond - Cu	0.18	mg	Supplier	Palladium (Pd)	7440-05-3		0.0029	mg
			Supplier	Copper (Cu)	7440-50-8		0.1771	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 sigma range of distribution unless otherwise noted).