ASSOCIATION CONNECTING LECTRANCE INDUSTRIES® INCLUSTRIES	PC. Bannockl	burn. Illinois. A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	tion of the sencompass	substances es all lowe	within the er level mat	manufacture terials for wh	er listed ite nich the m	em. Note: anufactur	if the item is an a er has engineering	ssembly with lower responsibility.
	IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distri				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					eous Materia	als and Mfg Information			
Supplier Information														
Company name* Cor			Company unique ID			Unique ID Authority					Response Date*			
onsemi											2025-05-13			
Contact Name Title - Contact			:t			Phone - Contact*				Email - Contact*				
Product-Env-Stewards Product E			uct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Repr			presentative			Phone - Representative*				Email - Representative*				
Product-Env-Stewards Produ			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Da	e Versior	1	Manufacturing Site		v	/eight*	UOM	Unit Type
	TLV431	LV431ASN1T1G ANA 1.24V PRO		G SHUNT REF	1	2025-05-13			MY1		8	.14	mg	Each
Manufacturing Proccess Informa	tion										·			
Terminal Plating / Grid Array Ma	Terminal Plating / Grid Array Material Terminal Base Allo		Alloy	J-STD-020 MSL Rating		Peak Pro	Peak Process Body Temperatu		ure Max Time at Peak Temr		Temperatu	re Nun	nber of Reflow Cy	cles
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30		second	ls 3			
Comments														
evel 1 - maximum time at peak temperatu	re during so	Idering is 10-3	0 seconds											
or more information regarding material	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), 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 v 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	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.

Iomogeneous Material Weight		Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.16	mg	Supplier	Silicon (Si)	7440-21-3		0.16	mg
Die Attach	0.18	mg		Epoxy resin	proprietary data		0.054	mg
			Supplier	Fatty acids, C18-unsatd., dimers, polymers with epichlorhydrin	68475-94-5		0.054	mg
			Supplier	2,2'-[[2-(oxiranylmethoxy)-1,3- phenylene]bis(methylene)]bisoxirane	13561-08-5		0.054	mg
			Supplier	4-Methyl-2-Phenyl-1H-Imidazole	827-43-0		0.0162	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0018	mg
Lead Frame	2.75	mg	Supplier	Silver (Ag)	7440-22-4		0.0577	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0033	mg
			Supplier	Iron (Fe)	7439-89-6		0.0646	mg
			Supplier	Copper (Cu)	7440-50-8		2.6235	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0008	mg
Mold Compound-Black	4.9	mg		Epoxy resin	proprietary data		0.245	mg
			Supplier	Phenolic Resin	Proprietary Data		0.245	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.098	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0245	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		4.2875	mg
Plating	0.14	mg	Supplier	Tin (Sn)	7440-31-5		0.14	mg
Wire Bond - Au	0.01	mg	Supplier	Gold (Au)	7440-57-5		0.01	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).