ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® INCLUSTRIES	mposition De 5. IPC, Bannockt Pan-American co	claration ourn, Illinois. <i>A</i> opyright conve	All rights reserved u ntions.	nder both	This docume level parts, t	ent is a declaration er	on of the substan acompasses all lo	ces within the man wer level materia	nufacturer liste ls for which th	ed item. Note: i le manufacture	f the item is an as r has engineering	ssembly with low responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form T http://www.ipc.org/IPC-175x Distribution				 Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi 				Materials and	ials and Mfg Information			
upplier Information													
ompany name*	Company unique ID			1	Unique ID Authority				Response Date*				
nsemi									2024-05-16				
Contact Name Title			Title - Contact			Phone - Contact*			Ema	Email - Contact*			
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA			Proc	Product-Env-Stewards@onsemi.com				
Authorized Representative* Titl			Title - Representative			Phone - Representative*			Ema	Email - Representative*			
roduct-Env-Stewards	Product Enviro Compliance				NA			Proc	Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Iten		n Number Mfr Item Name				Effective Date	Version	Manufacturing Site CNF		Weight*	UOM	Unit Type	
	LM431E	LM431BCZXA SHUNT-REG		1% TO-92		2024-05-16				218.995	mg	Each	
Ianufacturing Proccess Infor	mation												
Terminal Plating / Grid Array	Terminal Plating / Grid Array Material Terminal		ase Alloy J-STD-020 MSI		L Rating	Peak Proce	Peak Process Body Temperature		at Peak Temp	erature Numb	per of Reflow Cyc	cles	
Matte Tin (Sn) - annealed		CU Alloy NA		NA		0 C		30	se	conds 3			
omments													
or more information regarding mate	rial composition	please refer to	o 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 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	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	0.075	mg	Supplier	Silicon (Si)	7440-21-3		0.075	mg
Die Attach	0.0375	mg	Supplier	Silver (Ag)	7440-22-4		0.0319	mg
			Supplier	Phenolic Resin	Proprietary Data		0.0056	mg
Lead Frame	101.0	mg	Supplier	Silver (Ag)	7440-22-4		0.0101	mg
			Supplier	Iron (Fe)	7439-89-6		0.101	mg
			Supplier	Copper (Cu)	7440-50-8		100.8586	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0303	mg
Mold Compound-Black	112.0	mg		Phenol Resin	proprietary data		11.2	mg
			Supplier	Carbon Black (C)	1333-86-4		1.12	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		86.24	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		13.44	mg
Plating	5.85	mg	Supplier	Tin (Sn)	7440-31-5		5.85	mg
Wire Bond - Cu	0.0325	mg	Supplier	Palladium (Pd)	7440-05-3		0.0006	mg
			Supplier	Gold (Au)	7440-57-5		0	mg
			Supplier	Copper (Cu)	7440-50-8		0.0319	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).