ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® international and	position De 5. IPC, Bannockt Pan-American co	c laration ourn, Illinois. A opyright conver	All rights reserved u ntions.	nder both	This docume level parts, th	ent is a declaration en	n of the substand compasses all lo	es within the manu wer level materials	for which the	d item. Note: i e manufacturer	f the item is an as has engineering	sembly with low responsibility.	
[15] [1	IPC Web Site for Information on IPC-1752 Standard Form Ty				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				Materials and	ials and Mfg Information			
upplier Information													
ompany name*	Company unique ID			ι	Unique ID Authority				Response Date*				
nsemi									2023-06-08				
Contact Name Title -			Fitle - Contact			Phone - Contact*			Emai	Email - Contact*			
Product-Env-Stewards	Product Enviro Compliance				NA			Prod	Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*			Emai	Email - Representative*			
roduct-Env-Stewards	Product Enviro Compliance				NA			Prod	Product-Env-Stewards@onsemi.com				
Requester Item Number			Number Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
	LM431A	LM431ACZ SHUNT-REG		б ТО-92		2023-06-08		CNF		223.536	mg	Each	
Ianufacturing Proccess Inform	nation												
Terminal Plating / Grid Array	Terminal Plating / Grid Array Material Terminal Base		Alloy J-STD-020 MSL Ratin		Rating	Peak Process Body Temperature Max		ture Max Time at	t Peak Tempe	rature Numb	er of Reflow Cyc	cles	
Matte Tin (Sn) - annealed C		CU Alloy NA		NA		0 C		30	sec	conds 3			
omments													
or more information regarding mater	ial 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), Disobutyl 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	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.

sigma range of distribution unless otherwise noted).									
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	0.038	mg	Supplier	Silver (Ag)	7440-22-4		0.0331	mg	
			Supplier	Phenolic Resin-2	54208-63-8		0.0049	mg	
Lead Frame	101.407	mg	Supplier	Silver (Ag)	7440-22-4		0.276	mg	
			Supplier	Iron (Fe)	7439-89-6		0.101	mg	
			Supplier	Copper (Cu)	7440-50-8		101	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.03	mg	
Mold Compound-Black	112.0	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4- hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		3.36	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		22.4	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		2.8	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.84	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		82.6	mg	
Plating	9.94	mg	Supplier	Tin (Sn)	7440-31-5		9.94	mg	
Wire Bond - Au	0.076	mg	Supplier	Gold (Au)	7440-57-5		0.076	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)