ASSOCIATION CONNECTING ASSOCIATION CONNECTING LECTRONICS INDUSTRIES® international and Pa	IPC. Bannockł	ourn, Illinois, A	ll rights reserved untions.	under both	This docume level parts, t	ent is a declaration en declaration	on of the su	bstances v all lower	vithin the manufactu level materials for v	urer listed which the	item. Note: manufacture	if the item is an as er has engineering	sembly with low responsibility.	
				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg 1					Ifg Informa	tion			
upplier Information														
Company name* Comp			Company unique ID			Unique ID Authority				Respor	Response Date*			
onsemi										2023-0	2023-06-08			
ontact Name Title - Contact					Phone - Contact*				Email	Email - Contact*				
Product-Env-Stewards Product Enviro			viro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Repre			resentative			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Product			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	М	Manufacturing Site		Weight*	UOM	Unit Type	
	LM431S	LM431SACM3X SHUNT-REG 2% S		5 SOT-23		2023-06-08		C	CNF		8.705	mg	Each	
Ianufacturing Proccess Informa	ntion													
Terminal Plating / Grid Array M	laterial 7	ial Terminal Base Alloy J-		J-STD-020 MSI	Rating	Peak Process Body Temp		emperature	ature Max Time at Peak Te		ture Num	ber of Reflow Cyc	les	
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30	seco	nds 3				
omments														
vel 1 - maximum time at peak temperat	ure during so	ldering is 10-3	0 seconds											
or more information regarding materia	l 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	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	0.048	mg	Supplier	Silicon (Si)	7440-21-3		0.048	mg	
Lead Frame	2.371	mg	Supplier	Silver (Ag)	7440-22-4		0.0095	mg	
			Supplier	Manganese (Mn)	7439-96-5		0.019	mg	
			Supplier	Silicon (Si)	7440-21-3		0.0071	mg	
			В	Nickel (Ni)	7440-02-0		0.9958	mg	
			Supplier	Iron (Fe)	7439-89-6		1.3396	mg	
Mold Compound-Black	6.06	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4- hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		0.109	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.515	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.061	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.03	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		4.345	mg	
Plating	0.206	mg	Supplier	Tin (Sn)	7440-31-5		0.206	mg	
Wire Bond - Au	0.02	mg	Supplier	Gold (Au)	7440-57-5		0.02	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 signa range of distribution unless otherwise noted)