ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES*				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
				Form Type Distribute						on			
Supplier Information													
Company name*			Company unique ID			Unique ID Authority				Response Date*			
onsemi										2025-05-10			
Contact Name Title - Contact			ict			Phone - Contact*				Email - Contact*			
Product-Env-Stewards Product I			oduct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Re			- Representative			Phone - Representative*			Email - Representative*				
Product-Env-Stewards P			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	Manufactur	Manufacturing Site		Veight*	UOM	Unit Type
	LM431S	LM431SCCMLX SHUNT-REG 0.5		% SOT-89		2025-05-10 KR3		KR3		50.916		mg	Each
Manufacturing Proccess Informa	tion												
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material Terminal Base Allo		Alloy J	-STD-020 MSI	Rating	Peak Proce	ss Body Temp	erature Max T	ime at Peak '	Temperat	ure Numb	er of Reflow Cy	eles
Matte Tin (Sn) - annealed CU Alloy			1	l		260	С	30		secon	ds 3		
Comments													
evel 1 - maximum time at peak temperati	ure during sol	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 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	0.469	mg	Supplier	Silicon (Si)	7440-21-3		0.469	mg	
Die Attach	0.089	mg	Supplier	Silver (Ag)	7440-22-4		0.0676	mg	
			Supplier	Phenolic Resin-2	54208-63-8		0.0214	mg	
Lead Frame	23.745	mg	Supplier	Silver (Ag)	7440-22-4		0.114	mg	
			Supplier	Iron (Fe)	7439-89-6		0.024	mg	
			Supplier	Copper (Cu)	7440-50-8		23.6	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.007	mg	
Mold Compound-Black	26.116	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4- hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		0.783	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		3.78	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.653	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.261	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		20.639	mg	
Plating	0.472	mg	Supplier	Tin (Sn)	7440-31-5		0.472	mg	
Wire Bond - Au	0.025	mg	Supplier	Gold (Au)	7440-57-5		0.025	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)