© Copyright 20	mposition De 05. IPC, Bannockt d Pan-American co	ourn, Illinois. A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declaration e	on of the su	ibstances v s all lower	vithin the manufact level materials for	urer listed which the	item. Note: manufacture	if the item is an as er has engineering	ssembly with low responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Type   http://www.ipc.org/IPC-175x Distribute				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information			
upplier Information														
Company name* Cor			Company unique ID			Unique ID Authority				Respor	Response Date*			
onsemi										2024-04	2024-04-24			
Contact Name Title - Contact			ct			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Product Er			uct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Represen			entative		Phone - Representative*			Email	Email - Representative*					
Product-Env-Stewards Produc			roduct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	ster Item Number Mfr Item Num		Number Mfr Item Name			Effective Date	Version	M	Manufacturing Site		Weight*	UOM	Unit Type	
	LM431S	LM431SBCM3X SHUNT-REG 1		1% SOT-23		2024-04-24		CNF			9.1632	mg	Each	
Ianufacturing Proccess Infor	mation													
Terminal Plating / Grid Arra	Ferminal Plating / Grid Array Material Terminal Base A		Alloy	J-STD-020 MSL Rating		Peak Process Body Temperature Max Time at Peak		ık Tempera	Temperature Number of Reflow Cycles					
Matte Tin (Sn) - annealed CU.		CU Alloy	1			<b>260</b> C		С	<b>30</b> sec.		seconds 3			
omments														
vel 1 - maximum time at peak temp	erature during so	Idering is 10-3	0 seconds											
or more information regarding mate	erial 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), 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 co 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	0.29	mg	Supplier	Silicon (Si)	7440-21-3		0.29	mg
Die Attach Epoxy	0.009	mg	Supplier	Silver (Ag)	7440-22-4		0.0083	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.0007	mg
Lead Frame	2.1622	mg	Supplier	Silver (Ag)	7440-22-4		0.0006	mg
			Supplier	Manganese (Mn)	7439-96-5		0.0093	mg
			Supplier	Silicon (Si)	7440-21-3		0.003	mg
			В	Nickel (Ni)	7440-02-0		0.9016	mg
			Supplier	Iron (Fe)	7439-89-6		1.2474	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0002	mg
Mold Compound-Black	6.504	mg		Metal Hydroxide	proprietary data		0.2276	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.5203	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0325	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.2032	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.5203	mg
Plating	0.159	mg	Supplier	Tin (Sn)	7440-31-5		0.159	mg
Wire Bond - Au	0.039	mg	Supplier	Gold (Au)	7440-57-5		0.039	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).