ASSOCIATION CON ELECTRONICS IN	Copyright 2005. IPC	C, Bannockb	urn, Illinois. A	All rights reserved untions.	under both	This docume level parts, t	ent is a declarat he declaration e	ion of the encompas	substances ses all lowe	within the er level mate	manufactur erials for wl	er listed it hich the m	em. Note: i anufacture	if the item is an as r has engineering	ssembly with low responsibility.	
752-21.1					Form Type Distribute	 Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater 					ous Materia	ials and Mfg Information				
upplier In	nformation															
ompany nar	me*	Company unique ID			1	Unique ID Authority					Response Date*					
nsemi												2024-04-25				
Contact Name	e	Title - Contact]	Phone - Contact*				Email - Contact*						
Product-Env	v-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
uthorized R	Representative*		Title - Representative]	Phone - Representative*				Email - Representative*					
roduct-Env	-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
Re	Requester Item Number Mfr Iten		n Number Mfr Item Name				Effective Date	Versio	n	Manufacturing Site		1	Weight*	UOM	Unit Type	
		TLV431ALPRMG ANA		ANA 1.24V PROG SHUNT REF		2024-04-25			CNM		1	98.01	mg	Each		
Ianufactu	iring Proccess Informati	on		,					1							
Tei	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-02		J-STD-020 MS	L Rating	Peak Process Body Temper		Temperatu	ture Max Time at Peak ?		Temperat	ure Num	ber of Reflow Cyc	cles	
Matte Tin (Sn) - annealed		C	CU Alloy NA			0 C		C	30		secon	ds 3				
omments																
or more info	ormation regarding material co	omposition (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 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	3.2	mg	Supplier	Silicon (Si)	7440-21-3		3.2	mg
Die Attach	5.15	mg	Supplier	Silver (Ag)	7440-22-4		3.8625	mg
			Supplier	Epoxy resins	129915-35-1		1.2875	mg
Lead Frame	80.67	mg	Supplier	Silver (Ag)	7440-22-4		0.4033	mg
			Supplier	Copper (Cu)	7440-50-8		80.2666	mg
Mold Compound-Black	106.15	mg		Metal Hydroxide	proprietary data		5.3075	mg
			Supplier	Carbon Black (C)	1333-86-4		1.0615	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		79.6125	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		10.615	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.5535	mg
Plating	2.74	mg	Supplier	Tin (Sn)	7440-31-5		2.74	mg
Wire Bond - Au	0.1	mg	Supplier	Gold (Au)	7440-57-5		0.1	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 signar range of distribution unless otherwise noted)