	Material Compo © Copyright 2005. IP international and Pan-	C, Bannockb	urn, Illinois. A	All rights reserved u ntions.	under both	This docume level parts, t	ent is a declaration	tion of t encomp	he substances basses all low	s within the er level ma	e manufactur terials for wl	er listed it hich the m	tem. Note: nanufacture	if the item is an as r has engineering	sembly with low responsibility.	
752-21.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x				Form Type Distribute	Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
upplie	r Information															
Company name*				Company unique ID			Unique ID Authority					Response Date*				
nsemi												2025-07-12				
ontact N	lame		Title - Contact			]	Phone - Contact*					Email - Contact*				
Product-	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
uthorize	ed Representative*		Title - Representative			]	Phone - Representative*				Email - Representative*					
roduct-	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item Number   TL431AILF		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site		ring Site		Weight*	UOM	Unit Type		
			ILPRAG	PRAG ANA 2.5V PROG SHUNT REF			2025-07-12 CNF			198.01		mg	Each			
Ianufa	cturing Proccess Information	ion														
	Terminal Plating / Grid Array Material		Ferminal Base Alloy J-STD-020 M		J-STD-020 MS	L Rating	Peak Process Body Temperate		ure Max Time at Peak Tem		Temperat	ure Num	ber of Reflow Cyc	les		
Matte Tin (Sn) - annealed		С	CU Alloy NA			0 C		30 seco		secon	ds 3					
omments	3															
or more	information regarding material c	composition	please refer to	o page 3												

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(Pb), Mercury (Hg), Hexavalent Chror	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 Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl late (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 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	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		4.3775	mg
			Supplier	Phenolic Resin	Proprietary Data		0.7725	mg
Lead Frame	80.67	mg	Supplier	Silver (Ag)	7440-22-4		0.0081	mg
			Supplier	Iron (Fe)	7439-89-6		0.0807	mg
			Supplier	Copper (Cu)	7440-50-8		80.5571	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0242	mg
Mold Compound-Black	106.15	mg		Phenol Resin	proprietary data		10.615	mg
			Supplier	Carbon Black (C)	1333-86-4		1.0615	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		81.7355	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		12.738	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