© Copyright 2005. IPC,	© Convright 2005 IPC Bannockburn Illinois All rights reserved under both					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.								
	IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distrii									on				
Supplier Information														
Company name* Con			Company unique ID			Unique ID Authority					Response Date*			
onsemi										2024-05-09				
Contact Name Title - Contact			ct	1			Phone - Contact*				Email - Contact*			
Product-Env-Stewards Product Env			Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Represent			entative		Phone - Representative*			Email - Representative*						
Product-Env-Stewards Product			oduct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	Ma	Manufacturing Site		Weight*	UOM	Unit Type	
	TL331SN	L331SN4T1G Low Power Sing		e comparator		2024-05-09		M	MY1		14.08	mg	Each	
Manufacturing Proccess Informatio	n		·									·		
Terminal Plating / Grid Array Mater	Terminal Plating / Grid Array Material Terminal Base Allo		Alloy J	J-STD-020 MSL	Rating	Peak Proc	ess Body Tem	perature	Max Time at Peak	Tempera	ture Numb	er of Reflow Cy	les	
Matte Tin (Sn) - annealed CU Alloy			1		260	С	2	30	secor	nds 3				
Comments														
level 1 - maximum time at peak temperature	during sole	dering is 10-3	0 seconds											
For more information regarding material cor	nposition p	olease refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth	
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 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	0.42	mg	Supplier	Silicon (Si)	7440-21-3		0.42	mg
Die Attach	0.11	mg		Epoxy resin	proprietary data		0.033	mg
			Supplier	Fatty acids, C18-unsatd., dimers, polymers with epichlorhydrin	68475-94-5		0.033	mg
			Supplier	2,2'-[[2-(oxiranylmethoxy)-1,3- phenylene]bis(methylene)]bisoxirane	13561-08-5		0.033	mg
			Supplier	4-Methyl-2-Phenyl-1H-Imidazole	827-43-0		0.0099	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0011	mg
Lead Frame	5.78	mg	Supplier	Silver (Ag)	7440-22-4		0.0705	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0069	mg
			Supplier	Iron (Fe)	7439-89-6		0.1358	mg
			Supplier	Copper (Cu)	7440-50-8		5.565	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0017	mg
Mold Compound-Black	7.34	mg		Epoxy resin	proprietary data		0.367	mg
			Supplier	Phenolic Resin	Proprietary Data		0.367	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.1468	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0367	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		6.4225	mg
lating	0.39	mg	Supplier	Tin (Sn)	7440-31-5		0.39	mg
Wire Bond - Au	0.04	mg	Supplier	Gold (Au)	7440-57-5		0.04	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).