IPC SECULATION CONVECTING IECTRONICS INDUSTRIES* Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe 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 Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					is Materials an	als and Mfg Information				
Supplier Information															
Company name*	Company un	Company unique ID			Unique ID Authority					Response Date*					
onsemi									2023-06-08						
Contact Name	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*					
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - Repr			epresentative I			Phone - Representative*				Em	Email - Representative*				
Product-Env-Stewards	Product Enviro Compliance				NA				Pro	Product-Env-Stewards@onsemi.com					
Requester Item Number	em Number Mfr Item Nu		Number Mfr Item Name			Effective Da	ctive Date Version Manufacturing Site		g Site	Weig	,ht*	UOM	Unit Type		
	LC87F20 AH	LC87F2608AUMM- AH		controller		2023-06-08		РНМ			80.0		mg	Each	
Manufacturing Proccess Informat	ion					•							· ·		
Terminal Plating / Grid Array Mat	erial T	erminal Base	Alloy J	J-STD-020 MSL Rating		Peak Process Body Ten		/ Temperatu	erature Max Time at Peak T		Cemperature Number of Reflow Cycles		les		
Sn alloys with no Bi or Zn excluding SnAgCu		CU Alloy 3		3		260		C	30 sec		econds 3				
Comments															
TTENTION: MSL 3 Rated item requires	Bake and D	ry Pack (after	electrical test)												
or more information regarding material o	omposition	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), Disobutyl 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	2.5	mg	Supplier	Silicon (Si)	7440-21-3		2.4845	mg
			Supplier	Polyimide	Proprietary Data		0.0155	mg
Die Attach	0.24	mg	Supplier	Silver (Ag)	7440-22-4		0.1836	mg
			Supplier	Epoxy resins	129915-35-1		0.0564	mg
Lead Frame	27.78	mg	Supplier	Silver (Ag)	7440-22-4		0.1861	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0333	mg
			Supplier	Iron (Fe)	7439-89-6		0.6528	mg
			Supplier	Copper (Cu)	7440-50-8		26.8994	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0083	mg
Mold Compound-Black	48.65	mg		Epoxy Phenol Resin	proprietary data		5.838	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1946	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.1579	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.4595	mg
Plating	0.68	mg	В	Bismuth (Bi)	7440-69-9		0.0041	mg
			Supplier	Tin (Sn)	7440-31-5		0.6759	mg
Wire Bond - Au	0.15	mg	Supplier	Gold (Au)	7440-57-5		0.15	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).