IPC ASSOCIATION ELECTRONIC	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.										
752-21.1	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					us Materi	ials and Mfg Information				
upplie	r Information														
Company	name*	Company unique ID			ī	Unique ID Authority					Response Date*				
nsemi												2023-06-08			
Contact N	lame	Title - Contact]	Phone - Contact*					Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*	Title - Representative]	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Dat	e Versio	n	Manufacturing Site		W	eight*	UOM	Unit Type	
		LC87F5JC8AU-QIP-E FRC		FROM128KB,RAM4KB,QFP64			2023-06-08			PHM		11	0.00	mg	Each
Ianufa	cturing Process Informa	ation													
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-		STD-020 MSL	Rating	Peak Pro	Process Body Temperature Max Time at Pea		ne at Peak	k Temperature Number		per of Reflow Cyc	eles	
	contains Bi		CU Alloy 4				260 C		C	30 50		second	3		
omments	S														
or more	information regarding materia	l composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the Supplier have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the						

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.

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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	7.68	mg	Supplier	Silicon (Si)	7440-21-3		7.68	mg
Die Attach	0.75	mg	Supplier	Silver (Ag)	7440-22-4		0.5738	mg
			Supplier	Epoxy resins	129915-35-1		0.1762	mg
Lead Frame	250.62		Supplier	Silver (Ag)	7440-22-4		0.6015	mg
			Supplier	Tin (Sn)	7440-31-5		0.6516	mg
			Supplier	Zinc (Zn)	7440-66-6		0.6265	mg
			Supplier	Chromium (Cr)	7440-47-3		0.6767	mg
			Supplier	Copper (Cu)	7440-50-8		248.0637	mg
Mold Compound-Black	832.62			Brominated epoxy resin	proprietary data		8.3262	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		116.5668	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		16.6524	mg
			Supplier	Carbon Black (C)	1333-86-4		3.3305	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		671.0917	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		16.6523	mg
Plating	6.81	mg	В	Bismuth (Bi)	7440-69-9		0.0409	mg
			Supplier	Tin (Sn)	7440-31-5		6.7691	mg
Wire Bond - Au	1.52	mg	Supplier	Gold (Au)	7440-57-5		1.52	mg