IPC ASSOCIATION COI	Material Comp © Copyright 2005.	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 Materi					ials and Mfg Information			
upplier In	nformation														
Company name*				Company unique ID			Unique ID Authority					Response Date*			
nsemi											2023-06-08				
Contact Name	e	Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env	-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized R	epresentative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env	-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Re	equester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Versi	on	Manufacturing Site	,	Weight*	UOM	Unit Type	
		LC87F5	LC87F5VP6AU-QIP- H FROM256KB,RAM10H		M10KB,QFP	100	2023-06-08			PHM		1500.0	mg	Each	
Ianufactu	uring Proccess Informa	ation													
Terminal Plating / Grid Array Material Te			erminal Base Alloy J-STD-020 MSI		SL Rating	Peak Process Body Temperature Max Time at Pe		re Max Time at Peak	ık Temperature Number of Reflow Cycles						
contains Bi		CU Alloy 3			260 C		30	secon	ds 3						
omments															
ITENTION	N: MSL 3 Rated item requir	es Bake and D	ry Pack (after	r electrical test)											
or more info	ormation 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 knowledge 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 suppliers 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itaalian agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Condition											
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		7.6324	mg
			Supplier	Polyimide	Proprietary Data		0.0476	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	350.5	mg	Supplier	Silver (Ag)	7440-22-4		0.4907	mg
			Supplier	Tin (Sn)	7440-31-5		4.3462	mg
			Supplier	Zinc (Zn)	7440-66-6		1.0164	mg
			Supplier	Silicon (Si)	7440-21-3		2.4184	mg
			В	Nickel (Ni)	7440-02-0		11.181	mg
			Supplier	Copper (Cu)	7440-50-8		331.0472	mg
Mold Compound-Black	1128.53	mg		Epoxy Phenol Resin	proprietary data		135.4236	mg
			Supplier	Carbon Black (C)	1333-86-4		4.5141	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		954.7363	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		33.8559	mg
Plating	10.65	mg	В	Bismuth (Bi)	7440-69-9		0.0639	mg
-			Supplier	Tin (Sn)	7440-31-5		10.5861	mg
Wire Bond - Au	1.89	mg	Supplier	Gold (Au)	7440-57-5		1.89	mg