Material Composition D © Copyright 2005. IPC, Bannod international and Pan-American	This docum level parts,	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 o http://www.ipc.org/IPC-175x	IPC Web Site for Information on IPC-1752 Standard Form Type			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials				ls and Mfg Information			
Supplier Information											
Company name*		Unique ID Authority			Response Date*						
onsemi	ısemi			2023				23-06-08			
Contact Name	tact Name Title - Contact			Phone - Contact*			Email - Contact*				
Product-Env-Stewards		NA			Product-Env-Stewards@onsemi.com						
Authorized Representative*		Phone - Representative*			Email - Representative*						
Product-Env-Stewards Product Enviro Compliance		NA		Pı		Product-Env-Stewards@onsemi.com					
Requester Item Number Mfr Ite	em Number Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type			
LC87I TLM-		256B,SSOP24TLM	2023-06-08		PHM	100.0	mg	Each			
Manufacturing Process Information											
Terminal Plating / Grid Array Material	Terminal Base Alloy J-	-STD-020 MSL Rating	Peak Proc	Peak Process Body Temperature M		Temperature Numbe	r of Reflow Cy	cles			
contains Bi	CU Alloy 4		260	C	30	seconds 3					
Comments											
or more information regarding material composition	on 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 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 Standard Terms and Conditions of Sale applicable to such part shall apply.									
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	2.87	mg	Supplier	Silicon (Si)	7440-21-3		2.8522	mg
			Supplier	Polyimide	Proprietary Data		0.0178	mg
Die Attach	0.71	mg	Supplier	Silver (Ag)	7440-22-4		0.4831	mg
			Supplier	Epoxy resins	129915-35-1		0.2053	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0155	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0061	mg
Lead Frame	48.01	mg	Supplier	Zinc (Zn)	7440-66-6		0.0912	mg
			Supplier	Iron (Fe)	7439-89-6		1.2435	mg
			Supplier	Copper (Cu)	7440-50-8		46.6081	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0672	mg
Mold Compound-Black	46.74	mg		Brominated epoxy resin	proprietary data		0.4674	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.3739	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.4674	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4674	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		39.2616	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		5.6088	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0935	mg
Plating	1.1	mg	В	Bismuth (Bi)	7440-69-9		0.0066	mg
			Supplier	Tin (Sn)	7440-31-5		1.0934	mg
Wire Bond - Au	0.57	mg	Supplier	Gold (Au)	7440-57-5		0.57	mg