ASSOCIATION CONNEC	Material Compo © Copyright 2005. II international and Pan	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 Info	rmation											<u> </u>			
Company name*				Company unique ID			Unique ID Authority					Response Date*			
onsemi												2023-06-08			
Contact Name			Title - Contact			Phone - C	Phone - Contact*					Email - Contact*			
Product-Env-Ste	ewards		Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
uthorized Repr	esentative*		Title - Representative			Phone - F	Phone - Representative*				Email - Representative*				
Product-Env-Stewards Product E				oduct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Reque	ester Item Number	Mfr Item	Number	Mfr Item Name		Effective	Date	ate Version Manufacturing Site		Ianufacturing Site		Weight*	UOM	Unit Type	
		LE25S20	SPI 2M bit serial flash memory WLCSP			V, 2023-06-	-08		P	РНМ		1.52747	mg	Each	
<b>Ianufacturi</b> r	ng Proccess Informat	tion													
Terminal Plating / Grid Array Material T			'erminal Base Alloy J-STD-020 MSL I		STD-020 MSL Rating	Peal	Peak Process Body Temperature Max Time at Pea		e Max Time at Peak	Tempera	ture Numb	er of Reflow Cyc	cles		
SnAgCu			CU Alloy 1			260	C 30		secon	nds 3					
omments															
vel 1 - maximui	m time at peak temperatu	re during sol	dering is 10-3	30 seconds											
or more inform	ation regarding material	composition	please refer t	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).											
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
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
Backside Protection Film	0.08832	mg		Epoxy resin	proprietary data		0.0185	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0016	mg
			Supplier	Acrylic resins	Proprietary Data		0.0185	mg
			Supplier	Silica (SiO2)	14464-46-1		0.0497	mg
Die	1.07373	mg	Supplier	Silicon (Si)	7440-21-3		1.0737	mg
Protection coat	0.04251	mg		Polyimide	proprietary data		0.0425	mg
RDL	0.16966	mg	Supplier	Titanium (Ti)	7440-32-6		0.001	mg
			Supplier	Copper (Cu)	7440-50-8		0.1686	mg
Solder Ball	0.15325	.15325 mg	Supplier	Silver (Ag)	7440-22-4		0.0061	mg
			Supplier	Tin (Sn)	7440-31-5		0.1464	mg
			Supplier	Copper (Cu)	7440-50-8		0.0008	mg