52-21.1		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 low 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				Iaterials and	ials and Mfg Information			
ıpplier Info	ormation													
Company name*			Company unique ID			U	Unique ID Authority				Response Date*			
semi											2023-06-08			
ntact Name		Title - Contact			P	Phone - Contact*			Email	Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance			N	NA			Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			P	Phone - Representative*			Email	Email - Representative*			
Product-Env-Stewards			Product Enviro Compliance			N	NA			Produ	Product-Env-Stewards@onsemi.com			
Requ	uester Item Number	Mfr Iten	n Number	Mfr Item Name]	Effective Date	Version	Version Manufacturing Site		Weight*	UOM	Unit Type	
		LC823425-13W1-LR- Audio LSI f		Audio LSI for IC	IC recorder		2023-06-08		РНМ		250.0	mg	Each	
anufacturi	ing Proccess Informa	tion												
Term	Terminal Plating / Grid Array Material		Ferminal Base Alloy J-STD-020 MS		Rating	Peak Process Body Temperature Max Time at		Peak Temper	rature Numb	er of Reflow Cy	cles			
SnAgCu		CU Alloy 4		4		260	C	30	seco	onds 3				
mments														

RoHS Material Composition Declaration			Declaration Type *	Detail	led					
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 (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 informationprovided 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 of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.										
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	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										
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recruired by the					
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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	17.38	mg	Supplier	Silicon (Si)	7440-21-3		17.3105	mg
			Supplier	Polyimide	Proprietary Data		0.0695	mg
Die Attach	1.54	mg	Supplier	Epoxy resins	129915-35-1		0.77	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0308	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.7392	mg
Mold Compound-Black	152.57	mg		Phenolic Resin	proprietary data		12.2056	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		13.7313	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		15.257	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		106.799	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		4.5771	mg
Solder Ball	23.12	mg	Supplier	Silver (Ag)	7440-22-4		0.6867	mg
			Supplier	Tin (Sn)	7440-31-5		22.3131	mg
			Supplier	Copper (Cu)	7440-50-8		0.1202	mg
Substrate and Solder Mask	54.12	mg	Supplier	Brominated Epoxy Resin-2	68541-56-0		3.047	mg
			Supplier	Silica crystalline	14808-60-7, 14464- 46-1		0.1515	mg
			Supplier	Inorganic filler	13776-74-4, 7631- 86-9, 21645-51-2		0.2165	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		10.2341	mg
			Supplier	Inorganic filler of Solder Mask	14807-96-6 7727- 43-7		0.6873	mg
			В	Nickel (Ni)	7440-02-0		12.9293	mg
			Supplier	Gold (Au)	7440-57-5		1.3963	mg
			Supplier	Cured Resin of Solder Mask	Proprietary Data		0.2327	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data		9.8823	mg
			Supplier	Copper (Cu)	7440-50-8		15.343	mg
Wire Bond	1.27	mg	Supplier	Palladium (Pd)	7440-05-3		0.0126	mg
			Supplier	Gold (Au)	7440-57-5		1.2574	mg