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 lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
IPC Web Site for Information on 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 Materi					ials and Mfg Information			
Supplier Information													
Company name* Company unique ID				Unique ID Authority						Response Date*			
onsemi					2023-06-						-06-08		
ntact Name Title - Contact				F	Phone - Contact*					Email - Contact*			
Product-Env-Stewards Product Enviro Compliance				1	NA					Product-Env-Stewards@onsemi.com			
uthorized Representative* Title - Representative				Phone - Representative*					Email - Representative*				
Product-Env-Stewards	o Compliance		NA				Product-Env-Stewards@onsemi.com						
Requester Item Number Mfr Ite	m Number	umber Mfr Item Name			Effective Date	Version	N	Manufacturing Site		W	eight*	UOM	Unit Type
AR133 A0-CF	5CSSC11SMK			2023-06-08		7	TWU			.1919	mg	Each	
Manufacturing Process Information													
Terminal Plating / Grid Array Material	Terminal Base A	Terminal Base Alloy J-STD-020 M			Peak Process Body Temperature Max Time at			e at Peak	eak Temperature Number of Reflow Cycles				
SnAgCu	CU Alloy 4				245		С	30		seconds	3		
Comments	·	·	·	·						·		·	
or more information regarding material composition	n please refer to	nage 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 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 Standard Terms andConditions 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	8.34	mg	Supplier	Silicon (Si)	7440-21-3		8.34	mg
Glass Attach Epoxy	9.0E-4	mg	Supplier	Imidazole	288-32-4		0.0002	mg
			Supplier	Epoxy Phenol Novolak Resin	28064-14-4		0.0007	mg
Glass Lid /Cap	34.79	mg	Supplier	Glass	65977-17-3		34.79	mg
Insulating Layer	3.53	mg	Supplier	9-Phenylacridine	602-56-2		0.1765	mg
			Supplier	2-Propenoic acid	1245638-61-2		1.059	mg
			Supplier	Other Additive Agents	Proprietary Data		2.118	mg
			Supplier	Butylglycol Acetate	112-07-2		0.1765	mg
Passivation	0.78	mg		Epoxy resin	proprietary data		0.0117	mg
			Supplier	Coupling Agent	Proprietary Data		0.0156	mg
			Supplier	Modified SBR Rubber	Proprietary Data		0.0039	mg
			Supplier	Melamine Compound	Proprietary Data		0.0234	mg
			Supplier	Trispenol Compound	Proprietary Data		0.0234	mg
			Supplier	Photosensitizer	Proprietary Data		0.0624	mg
			Supplier	Hydroxystyrene Resin	Proprietary Data		0.1716	mg
			Supplier	Ethyl Lactate	97-64-3		0.468	mg
RDL	0.54	mg	В	Nickel (Ni)	7440-02-0		0.324	mg
			Supplier	Gold (Au)	7440-57-5		0.0054	mg
			Supplier	Copper (Cu)	7440-50-8		0.2106	mg
Solder Ball	1.211	mg	Supplier	Silver (Ag)	7440-22-4		0.0804	mg
			Supplier	Tin (Sn)	7440-31-5		1.0768	mg
			Supplier	Copper (Cu)	7440-50-8		0.0538	mg