IPC ASSOCIATION CONNECTION ELECTRONICS INDUSTRIE	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				e *	* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					Ifg Informat	ion	
upplier Inforn	nation													
Company name*			Company unique ID			J	Unique ID Authority				Response Date*			
nsemi											2024-04-19			
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			I	Phone - Representative*				Email - Representative*			
Product-Env-Stewards Product E				oduct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Request	Requester Item Number Mfr Ite		tem Number Mfr Item Name				Effective Date		on	Manufacturing Site		Weight*	UOM	Unit Type
		AP0100AT2L00XUG 1 MP Co-Processor A0-DR1		or		2024-04-19		MY5			89.81	mg	Each	
<b>Ianufacturing</b>	Proccess Informati	on												
Terminal Plating / Grid Array Material Terminal E			erminal Base A	J-STD-020 MSL R			Peak Process Body Temperature Max Time at Peak			Tempera	ture Numb	per of Reflow Cyc	eles	
SnAgCu		C	CU Alloy 3		}		260	C 30		secor	nds 3			
omments														
TTENTION: MS	L 3 Rated item requires	Bake and D	ry Pack (after	electrical test)										
or more informati	on regarding material c	omposition	please refer to	page 3						·				

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 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 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 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	ceptance *	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 recurined 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	6.61	mg		Misc.	proprietary data		0.0192	mg
			Supplier	Silicon (Si)	7440-21-3		6.5842	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0066	mg
Die Attach	0.66	mg	Supplier	Epoxy resins	129915-35-1		0.0627	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.1947	mg
			Supplier	Acrylic resins	Proprietary Data		0.0957	mg
			Supplier	Polyimide	Proprietary Data		0.1947	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.1122	mg
Mold Compound-Black	43.67	mg		Phenolic Resin	proprietary data		2.0743	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		2.1835	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1092	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		39.303	mg
Solder Ball	10.46	mg	Supplier	Silver (Ag)	7440-22-4		0.3138	mg
			Supplier	Tin (Sn)	7440-31-5		10.0939	mg
			Supplier	Copper (Cu)	7440-50-8		0.0523	mg
Substrate and Solder Mask	27.33	mg	Supplier	Fiber Glass (SiO2)	65997-17-3		5.7912	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		0.358	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0875	mg
			Supplier	Acetophenone Derivative	Proprietary Data		0.5357	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0902	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8		0.0902	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data		3.5748	mg
			Supplier	Formaldehyde Polymer	9003-36-5		1.0713	mg
			Supplier	Copper (Cu)	7440-50-8		12.9599	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		2.7713	mg
Wire Bond - Au	1.08	mg	Supplier	Gold (Au)	7440-57-5		1.08	mg