ASSOCIATION CONNECT ELECTRONICS INDUSTR	Material Composi © Copyright 2005. IPC, international and Pan-A	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.							
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 Materials a					Information	on	
upplier Infor								,					
Company name* Company unique ID			unique ID		Unique ID Authority				Response Date*				
nsemi									2025-06-01				
Contact Name			Title - Contact			Phone - Contact*				Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			NA			Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*				Email - Representative*			
Product-Env-Stewards Product I			Enviro Compliance	pliance NA Product-Env-Steward				ards@onsemi.co	m				
Reques	ster Item Number	Mfr Item Number	Mfr Item Name	Mfr Item Name		Effective Date	Version	N	Manufacturing Site		ight*	UOM	Unit Type
		AR0144ATSM202 A0-TRBR	UE 1MP 1/4 CIS SO)		2025-06-01		Т	`A1	106	5.72	mg	Each
Ianufacturin g	g Proccess Informatio	n											
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-			J-STD-020 MS	L Rating	Peak Proc	ess Body Te	emperatur	e Max Time at Peak	Temperature	Numbe	er of Reflow Cyc	les	
SnAgCu CU A		CU Alloy		3		260		С	30	seconds	3		
omments													
FTENTION: MS	SL 3 Rated item requires B	ake and Dry Pack (fter electrical test)										
or more informa	tion regarding material cor	mposition please ref	er 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).											
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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all						
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	16.35	mg		Misc.	proprietary data		0.0621	mg
			Supplier	Silicon (Si)	7440-21-3		16.126	mg
			Supplier	Aluminum (Al)	7429-90-5		0.1619	mg
Die Attach	1.35	mg	Supplier	Siloxanes and Silicones, di-Me, hydroxy- terminated, reaction products with Me hydrogen siloxanes and trimethoxy(3- (oxiranylmethoxy)propyl)silane	153890-18-7		0.27	mg
			Supplier	1,1'-(Methylenedi-p- phenylene)bismaleimide	13676-54-5		0.6075	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.135	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.135	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.135	mg
			Supplier	Epoxy Phenol Novolak Resin	28064-14-4		0.0675	mg
Ероху	1.03	mg	Supplier	Imidazole Addition	68490-66-4		0.309	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.103	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.103	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.103	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.412	mg
Imaging Lens	8.8	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.44	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		0.44	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		0.44	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.44	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.044	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.44	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		0.44	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		6.116	mg
Mold Compound	31.06	mg		Epoxy resin	proprietary data		7.7029	mg
			Supplier	Other Additive Agents	Proprietary Data		0.9939	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.106	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		18.3254	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.9318	mg
Solder Ball	30.04	mg	Supplier	Silver (Ag)	7440-22-4		0.9012	mg

			Supplier	Tin (Sn)	7440-31-5	28.9886	mg
			Supplier	Copper (Cu)	7440-50-8	0.1502	mg
Solder Mask	1.92	mg		Epoxy resin	proprietary data	0.2304	mg
			Supplier	Acrylate	Proprietary Data	0.7334	mg
			Supplier	Talc	14807-96-6	0.0518	mg
			Supplier	Miscellaneous	Trade Secret	0.071	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	0.8333	mg
Substrate Copper Foil	1.47	mg	Supplier	Copper (Cu)	7440-50-8	1.47	mg
Substrate - Core Material	7.32	mg		Epoxy resin	proprietary data	4.2456	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	3.0744	mg
Substrate Plating-Au	0.17	mg	Supplier	Gold (Au)	7440-57-5	0.17	mg
Substrate Plating-Cu	6.6	mg	Supplier	Copper (Cu)	7440-50-8	6.6	mg
Substrate Plating-Ni	0.3	mg	В	Nickel (Ni)	7440-02-0	0.3	mg
Wire Bond - Au	0.31	mg	Supplier	Gold (Au)	7440-57-5	0.31	mg