ABSOCIATION CONNECTING ELECTRONICE INDUSTRIES® international and Pan	C. Bannockl	ourn, Illinois, A	ll rights reserved utions.	under both	This docume level parts, t	ent is a declaration he declaration en	on of the su	ibstances v s all lower	within the manufactu level materials for w	rer listed	item. Note: nanufacture	if the item is an as er has engineering	sembly with lowe responsibility.
				Form Type Distribute	*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
Supplier Information													
Company name*	Company uni	Company unique ID			Unique ID Authority				Respon	Response Date*			
onsemi						2023-06-08							
Contact Name Title - Contact					Phone - Contact*				Email - Contact*				
Product-Env-Stewards	Product Enviro Compliance				NA			Product-Env-Stewards@onsemi.com					
Authorized Representative*	Title - Repres	itle - Representative			Phone - Representative*			Email -	Email - Representative*				
Product-Env-Stewards	Product Envir	Product Enviro Compliance NA			NA	Prod			Produ	roduct-Env-Stewards@onsemi.com			
Requester Item Number Mfr Item		n Number	Number Mfr Item Name			Effective Date	Version	M	Manufacturing Site		Weight*	UOM	Unit Type
	AR0144 A0-TRB	4ATSM20XUE 1MP 1/4 CIS SO BR				2023-06-08		T.	TA1		106.72	mg	Each
Manufacturing Proccess Informat	ion												
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 Ma				J-STD-020 MSL	Rating	Peak Proce	ss Body Te	emperature	e Max Time at Peak	Tempera	ture Num	ber of Reflow Cyd	eles
SnAgCu CU Alloy 3				3		260		С	30	seco	nds 3		
Comments													
ATTENTION: MSL 3 Rated item requires	Bake and L	Dry Pack (after	electrical test)										
or more information regarding material	composition	please refer to	page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth	
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and co for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all
Exemption List Version	EL-2011/534/EU				
Declaration Signature					
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the
Supplier Digital Signature Ra	stislav Drska	Le			

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.

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		Bismaleimide Monomer	proprietary data		0.5197	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.0068	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.135	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.0068	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	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0068	mg
			Supplier	Other Additive Agents	Proprietary Data		0.27	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.135	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.	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