ASSOCIATION CONNECTING ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® international and Par	PC. Bannock	burn. Illinois. A	ll rights reserved a	under both	This docume level parts, t	ent is a declaration he declaration en	on of the su compasses	bstances v all lower	vithin the manufactu level materials for w	rer listed i which the r	tem. Note: nanufacture	if the item is an as r has engineering	sembly with low responsibility.
				Form Type Distribute	*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
upplier Information													
Company name* Company unique				Unique ID Authority			ority	ity Respo			sponse Date*		
onsemi						2025-05-10							
Contact Name Title - Contact			t			hone - Contact* Email - Contact*							
Product-Env-Stewards Pro			oduct Enviro Compliance			NA			Product-Env-Stewards@onsemi.com				
Authorized Representative*			- Representative			Phone - Representative*			Email -	Email - Representative*			
roduct-Env-Stewards	Product Envir	ro Compliance	ompliance NA Product-Env-Stewards@onsemi				vards@onsemi.co	m					
Requester Item Number Mfr Item		n Number	umber Mfr Item Name			Effective Date	Version	М	Manufacturing Site		Weight*	UOM	Unit Type
	AR0141 A0-TPB	141CSSM21SUE 1MP 1/4 CIS SO TPBR		1		2025-05-10		М	MY5		191.2	mg	Each
Ianufacturing Proccess Informa	tion												
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MS				Rating	Peak Proce	ss Body Te	emperature	Max Time at Peak	Tempera	ure Num	ber of Reflow Cyc	les	
SnAgCu CU Alloy 3						260		С	30	secor	ids 3		
omments													
FTENTION: MSL 3 Rated item require	s Bake and I	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 v 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 cc 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	29.5	mg		Misc.	proprietary data		0.1121	mg
			Supplier	Silicon (Si)	7440-21-3		29.0958	mg
			Supplier	Aluminum (Al)	7429-90-5		0.2921	mg
Die Attach	1.8	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.675	mg
			Supplier	Ethylene Glycol	107-21-1		0.018	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.054	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.378	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.675	mg
Imaging Lens	17.4	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.9158	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		0.9158	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		0.0917	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.9158	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.9158	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		0.9158	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		12.7295	mg
Lid Attach	1.46	mg	Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.657	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.292	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.1825	mg
			Supplier	Acrylate Oligomer	Proprietary Data		0.0073	mg
			Supplier	Curative	Proprietary Data		0.0292	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.292	mg
Iold Compound-Black	65.83	mg		Phenolic Resin	proprietary data		9.8745	mg
-			Supplier	Oxirane	39817-09-9		9.8745	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.9749	mg
			Supplier	Carbon Black (C)	1333-86-4		0.6583	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		42.1312	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.3166	mg
Solder Ball	35.81	mg	Supplier	Silver (Ag)	7440-22-4		1.0743	mg
			Supplier	Tin (Sn)	7440-31-5		34.5567	mg
			Supplier	Copper (Cu)	7440-50-8		0.179	mg
Substrate and Solder Mask	39.07	mg	Supplier	Bis(3-ethyl-5-methyl-4- maleimidophenyl)methane	105391-33-1		0.4376	mg

			Supplier	Fiber Glass (SiO2)	65997-17-3	5.0635	mg
			Supplier	Zinc (Zn)	7440-66-6	0.0586	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6	0.9103	mg
			Supplier	Cyanic acid (1-methylethylidene)di-4,1- phenylene ester homopolymer	25722-66-1	0.4376	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	0.2266	mg
			Supplier	Chromium (Cr)	7440-47-3	0.0039	mg
			Supplier	Acetophenone Derivative	Proprietary Data	1.3635	mg
			Supplier	Carbon Black (C)	1333-86-4	0.2266	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.2266	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2	4.6884	mg
			В	Nickel (Ni)	7440-02-0	0.5509	mg
			Supplier	Gold (Au)	7440-57-5	0.0195	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	2.731	mg
			Supplier	Formaldehyde Polymer	9003-36-5	0.4376	mg
			Supplier	Copper (Cu)	7440-50-8	14.6356	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	7.0521	mg
Wire Bond - Au	0.33	mg	Supplier	Gold (Au)	7440-57-5	0.33	mg