ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and Par	PC. Bannockl	burn, Illinois, A	ll rights reserved untions.	under both	This docume level parts, t	ent is a declarati he declaration e	on of the su	bstances v s all lower	vithin the manufactu level materials for v	urer listed which the	item. Note: nanufacture	if the item is an as er has engineering	sembly with low responsibility.	
				Form Type Distribute					rials and N	ials and Mfg Information				
upplier Information														
Company name* Compa			ompany unique ID			Unique ID Authority				Respon	Response Date*			
nsemi											2024-05-09			
ntact Name Title - Contact			ct		Phone - Contact*				Email ·	Email - Contact*				
Product-Env-Stewards Product Env.			viro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Repres			sentative			Phone - Representative*				Email ·	Email - Representative*			
Product-Env-Stewards Product			oduct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Iten	n Number	Mfr Item Name			Effective Date	Version	Manufacturing Site			Weight*	UOM	Unit Type	
	MURB1	AURB1620CTRT4G REC D2PAK 16A		A 200V ULTFS	00V ULTFST 20			V	VN5		1420.1	mg	Each	
Ianufacturing Proccess Informa	tion		·					ŕ						
Terminal Plating / Grid Array M	aterial	rial Terminal Base Allo		J-STD-020 MSL Rating		Peak Process Body Temperatu		emperature	ure Max Time at Peak Tempera		ture Num	ber of Reflow Cyc	eles	
Matte Tin (Sn) - annealed CU A		CU Alloy	1			260	С		30	seco	nds 3			
omments														
vel 1 - maximum time at peak temperat	ure during so	Idering is 10-3	0 seconds											
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	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, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company	ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in iffies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg	nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co	e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of					
RoHS Declaration * 4 - Item(	s) does not contain RoHS restricted subst	ances per the definition above except for sele	ected exempt	ions Supplier Acceptance	* Accepted					
Exemption: 7a: Lead in high melting temp	erature type solders (i.e. lead based sol	der alloys containing 85% by weight or m	ore lead).							
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required Requester) and click on Submit Form to h			e drop-dowi	a. This will display the signature area. Digita	lly sign the declaration (if required by the					
Supplier Digital Signature	astislav 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	0.19	mg	Supplier	Silicon (Si)	7440-21-3		0.19	mg
Die Attach	11.34	mg	А	Lead (Pb)	7439-92-1	7a	10.773	mg
			Supplier	Tin (Sn)	7440-31-5		0.567	mg
Lead Frame	851.91	mg	В	Nickel (Ni)	7440-02-0		2.5557	mg
			Supplier	Copper (Cu)	7440-50-8		849.3542	mg
Mold Compound-Black	529.31	mg		Epoxy resin	proprietary data		37.0517	mg
			Supplier	Phenolic Resin	Proprietary Data		15.8793	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		52.931	mg
			Supplier	Carbon Black (C)	1333-86-4		2.6465	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		420.8015	mg
Plating	27.15	mg	Supplier	Tin (Sn)	7440-31-5		27.15	mg
Wire Bond - Al	0.2	mg	Supplier	Aluminum (Al)	7429-90-5		0.2	mg

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 signar range of distribution unless otherwise noted)