ASSOCIATION CONNECTING ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® international and Pa	PC. Bannockb	ourn. Illinois. A	Il rights reserved ur ntions.	nder both	This docume level parts, t	ent is a declaration en	n of the substa compasses all	nces within the manufactor lower level materials for	urer listed which the	item. Note: if manufacturer	the item is an as has engineering	ssembly with low responsibility.	
				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					on			
Supplier Information													
Company name* Com			Company unique ID			Unique ID Authority				Response Date*			
onsemi										2023-06-08			
Contact Name Title - Contact					Phone - Contact*			Email	Email - Contact*				
Product-Env-Stewards Product Enviro			ro Compliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Representative			sentative	ntative Phor		Phone - Represe	one - Representative*			Email - Representative*			
Product-Env-Stewards Product Envi			Enviro Compliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	Manufacturing Site	Manufacturing Site		UOM	Unit Type	
	A5191H	A5191HRTPG-XTP A5191HRTPG HAR		ART MODEM	ASS	2023-06-08	PHG			1160.5	mg	Each	
Aanufacturing Proccess Informa	tion					•		•					
Terminal Plating / Grid Array Material Terminal Base Alloy		Alloy J.	-STD-020 MSL	Rating	Peak Proce	ss Body Temp	erature Max Time at Pea	k Temper	ature Numbe	er of Reflow Cy	cles		
Matte Tin (Sn) - annealed CU Alloy 3					260	С	30	seco	onds 3				
omments													
TTENTION: MSL 3 Rated item require	s Bake and D	ry 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	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), Disobutyl phthalate (DIBP).									
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 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 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										
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.

Substance Instructions: [A] select select a RoHS exemption, if applic sigma range of distribution unless	cable [E] enter the weigh	, Requester or Supplier) [B tt of the substance or the P]] select the substa PM concentration	ance category (JIG or Requester) or enter a value [F] Optionally enter the positive (+) and negative	e (Supplier). [C] selec ve (-) tolerance in pero	t the substance (JI cent (Note: percer	G) or enter the substar tolerance values are	nce and CAS (Other). [D] expected to cover a 3
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	55.79	mg	Supplier	Silicon (Si)	7440-21-3		55.79	mg
Die Attach	6.45	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		1.677	mg
			Supplier	Silver (Ag)	7440-22-4		4.773	mg
Lead Frame	372.2	mg	Supplier	Zinc (Zn)	7440-66-6		0.3722	mg
			Supplier	Copper (Cu)	7440-50-8		371.8278	mg
Mold Compound-Black	711.65	mg		Epoxy Phenol Resin	proprietary data		99.631	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		612.019	mg
Plating	13.48	mg	Supplier	Tin (Sn)	7440-31-5		13.48	mg
Wire Bond - Au	0.93	mg	Supplier	Gold (Au)	7440-57-5		0.93	mg