ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and Pa	IPC. Bannockt	ourn. Illinois. A	Il rights reserved un ntions.	nder both	This docume level parts, t	ent is a declaration er	n of the substa compasses all	ances within the manufact 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 M				Mfg Informati	on			
Supplier Information													
Company name* Comp			Company unique ID			Unique ID Authority				Response Date*			
onsemi									2024-0	2024-04-12			
Contact Name Title - Contact					Phone - Contact*				Email - Contact*				
Product-Env-Stewards Product Enviro Com			ro Compliance	Compliance		NA			Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative			sentative	tative Pr		hone - Representative*			Email	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	A5191HRTNG-XTP A5191HRTNG HA		ART MODEM	ASS	2024-04-12 PHG			14.8	mg	Each		
Aanufacturing Proccess Informa	ition					·	·				·		
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material Terminal Base Alloy		Alloy J-	-STD-020 MSL	Rating	Peak Proce	ss Body Temp	erature Max Time at Pea	ık Temper	ature Numb	er of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy 3					260	C	30	seco	onds 3				
omments													
TTENTION: MSL 3 Rated item require	es 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	toHS 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 hthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl 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 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.

Substance Instructions: [A] select select a RoHS exemption, if applie sigma range of distribution unless	cable [E] enter the weigh	, Requester or Supplier) [B tt of the substance or the Pl] select the substa PM concentration	ance category (JIG or Requester) or enter [F] Optionally enter the positive (+) ar	er a value (Supplier). [C] selec ad negative (-) tolerance in per	et the substance (JI cent (Note: percer	G) or enter the substa t 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	0.25	mg	Supplier	Silicon (Si)	7440-21-3		0.25	mg
Die Attach	0.37	mg	Supplier	Silver (Ag)	7440-22-4		0.2775	mg
			Supplier	Epoxy resins	129915-35-1		0.0925	mg
Lead Frame	5.81	mg	Supplier	Silver (Ag)	7440-22-4		0.9877	mg
			Supplier	Iron (Fe)	7439-89-6		0.0465	mg
			Supplier	Copper (Cu)	7440-50-8		4.7758	mg
Mold Compound-Black	7.0	mg		Epoxy Phenol Resin	proprietary data		0.735	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		6.265	mg
Plating	0.41	mg	Supplier	Tin (Sn)	7440-31-5		0.41	mg
Wire Bond - Au	0.96	mg	Supplier	Gold (Au)	7440-57-5		0.96	mg