ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Form Typ Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
Supplier Inform	ation														
Company name*	Company unique ID			ı	Unique ID Authority					Response Date*					
nsemi												2024-09-19			
Contact Name		Title - Contact]	Phone - Contact*					Email - Contact*				
Product-Env-Stewar	rds		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorized Represer	ntative*	Title - Representative]	Phone - Representative*				Email - Representative*					
Product-Env-Stewar	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
Requester	r Item Number			Mfr Item Name			Effective Dat	e Vers	ion	Manufacturing Site		,	Weight*	UOM	Unit Type
				A5191HRTPG H	HART MODEM ASS		2024-09-19 PHG			1160.5		mg	Each		
	Proccess Information														
Terminal Plating / Grid Array Material				J-STD-020 M	SL Rating			ture Max Time at Peak Tempera		Temperat	ure Numb	er of Reflow Cyc	eles		
Matte Tin (Sn) - annealed C			CU Alloy 3				260		C	30		secon	ds 3		
comments															
TTENTION: MSL	3 Rated item requires I	Bake and D	ry Pack (after	r electrical test)											
or more informatio	n regarding material co	mposition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not e at least as comprehensive as the hts and/or remedies provided as part of						
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the						

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 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 sigma range of distribution unless otherwise noted).

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