ASSOCIATION CONNECTIN	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 lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.											
1752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplier Inforn	nation				·		·									
Company name*		Company unique ID			τ	Unique ID Authority					Response Date*					
onsemi											2023-06-08					
Contact Name		Title - Contact			1	Phone - Contact*					Email - Contact*					
Product-Env-Stewa	ards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
uthorized Represe	entative*	Title - Representative			1	Phone - Representative*				Email - Representative*						
Product-Env-Stews	ards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
Request	er Item Number			Mfr Item Name A5191HRTLG HART MODEM ASS			Effective Date		ing Site	1	Weight*	UOM	Unit Type			
						2023-06-08 PHG		PHG		70.69	mg	Each				
Ianufacturing	Process Information	on						•								
Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MS		SL Rating	Peak Process Body Tempera		ure Max Ti	me at Peak	Temperat	ure Numb	per of Reflow Cyc	eles			
Matte Tin (Sn) - annealed			CU Alloy 3				260 C 30			seconds 3						
omments																
TTENTION: MS	L 3 Rated item requires l	Bake and D	ry Pack (after	electrical test)												
or more informati	on regarding material co	omposition	please refer to	page 3												

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	13.79	79 mg		Silicon (Si)	7440-21-3		13.79	mg
Die Attach	3.03	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.6666	mg
			Supplier	Silver (Ag)	7440-22-4		2.3634	mg
Lead Frame	56.68	mg	Supplier	Tin (Sn)	7440-31-5		0.1417	mg
			Supplier	Zinc (Zn)	7440-66-6		0.1134	mg
			Supplier	Chromium (Cr)	7440-47-3		0.17	mg
			Supplier	Copper (Cu)	7440-50-8		56.2549	mg
Mold Compound-Black	93.68	mg		Epoxy Phenol Resin	proprietary data		11.2416	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		82.4384	mg
Plating	2.64	mg	Supplier	Tin (Sn)	7440-31-5		2.64	mg
Wire Bond - Au	0.87	mg	Supplier	Gold (Au)	7440-57-5		0.87	mg