	IPC - 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 low level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
Company name* Company unique ID  Unique ID Authority Response Date* 2023-06-08  Contact Name Title - Contact Phone - Contact*  Product Env-Stewards Unique ID Authority Response Date* 2023-06-08  Contact Name Product Env-Stewards Product Enviro Compliance NA Product Env-Stewards Unique ID Authority Response Date* 2023-06-08  Contact Name Product Env-Stewards Product Env-Stewards Product Enviro Compliance NA Product Env-Stewards © onsemi.com Product Env-Stewards © Na Product Env-Stewards © onsemi.com NA Product Env-Stewards © Onsemi.com Product Env-Stewards © Onsemi.com Product Env-Stewards © Onsemi.com NA Product Env-Stewards © Onsemi.com Product Env-Stewards © Onsemi.com NA Product Env-Stewards © Onsemi.com NA Product Env-Stewards © Onsemi.com NA	752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type				*						als and M	fg Informatio	on		
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or more information regarding material composition please refer to page 3			•.•													

RoHS Material Composition Declaration			Declaration Type *	Detail	led
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an		
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 to the identified part, the company's remedies for issues that arise respects the company is the company	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit ide in you believe may apply. If the part is an assembly 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	cceptance *	Accepted
Exemption: If the declared item does not applicable exemptions.	contain RoHS restricted substances per	the definition above except for defined Ro	oHS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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	sure Level Substance		CAS	Exempt	Weight	Unit of Measure
Coupling Gel	1.83	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.635	mg
			Supplier	Dimethyl Siloxane	68083-19-2		0.888	mg
			Supplier	3-Methacryloxypropyltrimethoxysilane (C10H20O5Si)	2530-85-0		0.307	mg
Die	4.043	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.283	mg
			Supplier	Silicon (Si)	7440-21-3		3.76	mg
Die Attach	1.665	mg	Supplier	Silver (Ag)	7440-22-4		1.2487	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.4162	mg
Lead Frame	108.322	mg	Supplier	Silver (Ag)	7440-22-4		0.68	mg
			Supplier	Zinc (Zn)	7440-66-6		0.13	mg
			Supplier	Iron (Fe)	7439-89-6		2.48	mg
			Supplier	Copper (Cu)	7440-50-8		105	mg
			Supplier	Phosphorus (P)	7723-14-0		0.032	mg
Mold Compound-Black	414.4	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		16.6	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		95.3998	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		12.4	mg
			Supplier	Carbon Black (C)	1333-86-4		4.15	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		285.8498	mg
Plating	6.7	mg	Supplier	Tin (Sn)	7440-31-5		6.7	mg
Wire Bond - Au	0.149	mg	Supplier	Gold (Au)	7440-57-5		0.149	mg