IPC ASSOCIATION ELECTRONICS	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.											
1752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typhttp://www.ipc.org/IPC-175x Distribute				b * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						rials and Mf	g Infori	rmation			
Supplier	Informa	tion															
Company name*				Company unique ID			1	Unique ID Authority					Response Date*				
nsemi													2023-06-08				
Contact Name				Title - Contact]	Phone - Contact*					Email - Contact*				
Product-Env-Stewards				Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
Authorized Representative*				Title - Representative]	Phone - Representative*				Email - Representative*					
Product-Env-Stewards				Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester I	quester Item Number Mfr Iten			n Number Mfr Item Name			Effective Dat	te Ver	rsion	Manufacturing Site		Weight*		* UO	М	Unit Type
		LC8981		16A-TBM-H Radio contorol Driver				2023-06-08			PHM		90.0		mg		Each
Aanufa	cturing Pi	roccess Information	n					,									,
	Terminal Pla	minal Plating / Grid Array Material		Terminal Base Alloy J.		J-STD-020 MS	ΓD-020 MSL Rating		Peak Process Body Temper		ature Max Time at Peak		Temperature Number		umber of Re	mber of Reflow Cycles	
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		u) (no	CU Alloy 4		4		260		С	30 seco		secono	ls 3			
Comments								•		•	•		•				
or more i	information	regarding material con	nposition	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).												
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to su												
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 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	5.23	mg	Supplier	Silicon (Si)	7440-21-3		5.218	mg
			Supplier	Polyimide	Proprietary Data		0.012	mg
Die Attach	2.24	mg	Supplier	Silver (Ag)	7440-22-4		1.568	mg
			Supplier	Epoxy resins	129915-35-1		0.6608	mg
			Supplier	Acrylic resins	Proprietary Data		0.0112	mg
Lead Frame	37.9	mg	Supplier	Tin (Sn)	7440-31-5		0.1023	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0985	mg
			Supplier	Chromium (Cr)	7440-47-3		0.1061	mg
			Supplier	Copper (Cu)	7440-50-8		37.593	mg
Mold Compound-Black	43.66	mg		Organic Phosphorus compound	proprietary data		0.7422	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.921	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0873	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		39.556	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		1.3535	mg
Plating	0.56	mg	Supplier	Palladium (Pd)	7440-05-3		0.0773	mg
			В	Nickel (Ni)	7440-02-0		0.4777	mg
			Supplier	Gold (Au)	7440-57-5		0.005	mg
Wire Bond - Au	0.41	mg	Supplier	Gold (Au)	7440-57-5		0.41	mg