ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	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.								
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mi	fg Informati	on	
upplier I	Information													
Company name*			Company ur	Company unique ID			Unique ID Authority				Response Date*			
nsemi											2025-06-08			
Contact Nan	me	Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-En	v-Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
uthorized I	Representative*	Title - Representative			I	Phone - Representative*			Email - Representative*					
Product-En	v-Stewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com				
F	Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	. I	Manufacturing Site		Veight*	UOM	Unit Type
		MM74HC164MX 8-BIT SIPO SHIFT		REG		2025-06-08	PH1		1	55.905	mg	Each		
	uring Proccess Inform												·	
2			erminal Base Alloy J-STD-020 MSL Ratir		Rating									
M	Salution In the second secon		CU Alloy	1			260		C	30	secon	ds 3		
omments														
vel 1 - max	simum time at peak tempera	ture during sol	ldering is 10	30 seconds										
or more inf	formation regarding materia	al composition	please refer t	o 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 the 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 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	3.63	mg	Supplier	Silicon (Si)	7440-21-3		3.63	mg
Die Attach	0.367	mg		Bismaleimide Resin	proprietary data		0.0606	mg
			Supplier	Other Additive Agents	Proprietary Data		0.0128	mg
			Supplier	Silver (Ag)	7440-22-4		0.2936	mg
Lead Frame	68.71	mg	Supplier	Zinc (Zn)	7440-66-6		0.0825	mg
			Supplier	Iron (Fe)	7439-89-6		1.6147	mg
			Supplier	Copper (Cu)	7440-50-8		66.9922	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0206	mg
Mold Compound-Black	81.974	mg		Epoxy resin	proprietary data		4.9184	mg
			Supplier	Phenolic Resin	Proprietary Data		4.9184	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4099	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		69.6779	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		2.0494	mg
Plating	0.944	mg	Supplier	Palladium (Pd)	7440-05-3		0.0481	mg
			В	Nickel (Ni)	7440-02-0		0.8874	mg
			Supplier	Gold (Au)	7440-57-5		0.0085	mg
Wire Bond - Au	0.28	mg	Supplier	Gold (Au)	7440-57-5		0.28	mg