IPC ASSOCIATION CONNECT ELECTRONICS INDUSTR	Material Compo © Copyright 2005. IPC international and Pan-	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 Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					Materials	ials and Mfg Information				
upplier Infor	mation															
Company name*			Company unique ID			J	Unique ID Authority					Response Date*				
nsemi												2023-06-08				
Contact Name			Title - Contact			I	Phone - Contact*				F	Email - Contact*				
Product-Env-Stew	vards	Product Enviro Compliance				NA]	Product-Env-Stewards@onsemi.com					
authorized Repres	sentative*	Title - Representative			I	Phone - Representative*				E	Email - Representative*					
Product-Env-Stev	vards	Product Enviro Compliance				NA]	Product-Env-Stewards@onsemi.com					
Reques	Requester Item Number		Mfr Item Number Mfr Item Na		Name		Effective Dat	e Vers	Version Manufacturing Site		Site	We	eight*	UOM	Unit Type	
		MM74H0	MM74HC244WM OCTA		OCTAL TRI-STATE BUFFER		2023-06-08	023-06-08 PH1			535.9996		mg	Each		
Ianufacturing	g Proccess Informati	on														
Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MSI		SL Rating	Peak Process Body Temperat		ire Max Time	at Peak Te	emperatur	Numbe	er of Reflow Cyc	eles			
Matte Tin (Sn) - annealed			CU Alloy 3				260 C 30				seconds 3					
omments																
TTENTION: MS	SL 3 Rated item requires	Bake and D	ry Pack (afte	r electrical test)												
or more informat	tion regarding material c	omposition j	please refer t	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).											
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 is true and correct to the best of its knowledge 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 have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this 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 liability 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 such part shall apply.											
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	25.835	mg	Supplier	Silicon (Si)	7440-21-3		25.835	mg
Die Attach	0.4286	mg	Supplier	Silver (Ag)	7440-22-4		0.3107	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.1179	mg
Lead Frame	171.52		Supplier	Silver (Ag)	7440-22-4		1.372	mg
			Supplier	Zinc (Zn)	7440-66-6		0.257	mg
			Supplier	Iron (Fe)	7439-89-6		3.911	mg
			Supplier	Copper (Cu)	7440-50-8		165.808	mg
			Supplier	Phosphorus (P)	7723-14-0		0.172	mg
Mold Compound-Black	321.6		Supplier	Ortho Cresol Novolac Resin	29690-82-2		19.296	mg
			Supplier	Carbon Black (C)	1333-86-4		3.216	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		289.44	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.648	mg
Plating	16.08	mg	Supplier	Tin (Sn)	7440-31-5		16.08	mg
Wire Bond - Au	0.536	mg	Supplier	Gold (Au)	7440-57-5		0.536	mg