ABSOCIATION CONNECTING LECTRANCE INDUSTRIES® Material Compositie © Copyright 2005. IPC, B. international and Pan-Ame	annockburn, Illinois.	All rights reserved u entions.	under both	This docume level parts, t	ent is a declarati he declaration e	on of the substancompasses all	ances within the manufac lower level materials for	turer listed which the	item. Note: if manufacturer	f the item is an as has engineering	sembly with lower responsibility.	
	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 Materia				erials and N	als and Mfg Information			
Supplier Information												
Company name* Company unique ID			D Uniqu		Unique ID Auth	ique ID Authority			Response Date*			
onsemi									2023-06-08			
Contact Name	tet Name Title - Contact				Phone - Contact*				Email - Contact*			
roduct-Env-Stewards Product Enviro Compliance				NA			Produ	Product-Env-Stewards@onsemi.com				
uthorized Representative* Title - Representative					Phone - Representative*				Email - Representative*			
Product-Env-Stewards Product Enviro Complia			ompliance N		NA			Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number M	Afr Item Number	Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
Ν	MM74HCT138MX	HCT138MX 3-TO-8 LINE DECO			2023-06-08		PH1		147.6	mg	Each	
Manufacturing Proccess Information												
Terminal Plating / Grid Array Material	Material Terminal Base Alloy		J-STD-020 MSI	L Rating	Peak Proce	Process Body Temperature Max Time at Peak		ak Tempera	Temperature Number of Reflow Cycles		eles	
Matte Tin (Sn) - annealed CU Alloy 1			1		260	С	30	seco	nds 3			
Comments												
evel 1 - maximum time at peak temperature du	ring soldering is 10	30 seconds										
For more information regarding material comp	osition please refer	to page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed					
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 bhthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).									
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of					
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted					
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all					
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the					
Supplier Digital Signature Ra	stislav Drska	Le								

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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	4.35	mg	Supplier	Silicon (Si)	7440-21-3		4.35	mg
Die Attach	0.44	mg		Epoxy resin	proprietary data		0.044	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.022	mg
			Supplier	Silver (Ag)	7440-22-4		0.352	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.022	mg
Lead Frame	46.4	mg	Supplier	Silver (Ag)	7440-22-4		0.2042	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0603	mg
			Supplier	Iron (Fe)	7439-89-6		1.1136	mg
			Supplier	Copper (Cu)	7440-50-8		45.0034	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0186	mg
Mold Compound-Black	93.9	mg		Epoxy resin	proprietary data		6.573	mg
			Supplier	Phenolic Resin	Proprietary Data		2.3475	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		7.0425	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4695	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		75.12	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		2.3475	mg
Plating	2.31	mg	Supplier	Tin (Sn)	7440-31-5		2.31	mg
Wire Bond - Cu	0.2	mg	Supplier	Copper (Cu)	7440-50-8		0.2	mg

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).