ASSOCIATION CONNECTION ELECTRONICS INDUSTRI	Material Compos © Copyright 2005. IPC international and Pan-A	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 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 Type http://www.ipc.org/IPC-175x Distribute				e *	* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					fg Informatio	on	
upplier Infori										,				
Company name*			Company unique ID			Ţ	Unique ID Authority				Response Date*			
onsemi											2023-06-08			
Contact Name		7	Title - Contact			I	Phone - Contact*				Email - Contact*			
Product-Env-Stew	vards	F	Product Enviro Compliance			]	NA				Product-Env-Stewards@onsemi.com			
uthorized Repres	sentative*	7	Title - Representative			I	Phone - Representative*				Email - Representative*			
Product-Env-Stew	vards	F	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
Reques	Requester Item Number Mfr Ite		tem Number Mfr Item Name				Effective Date   Version   Manufacturing Si		Manufacturing Site	,	Weight*	UOM	Unit Type	
		MM74HCT245WMX 8-Bit B		8-Bit Bi-Direct Xc	-Bit Bi-Direct Xcvr		2023-06-08			PH1		535.9996	mg	Each
Ianufacturing	g Proccess Information	on												
Terminal Plating / Grid Array Material		erial Ter	Γerminal Base Alloy J-STD-020		-STD-020 MS	SL Rating	Peak Process Body Temper		/ Temperatu	ture Max Time at Peak Tempera		ure Numbe	er of Reflow Cyc	cles
Matte Tin (Sn) - annealed		CU	CU Alloy 3			260   C   3		30	secon	ds   3				
omments														
TTENTION: MS	SL 3 Rated item requires I	Bake and Dry	Pack (after	electrical test)										
or more informat	tion regarding material co	omposition ple	ease 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 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 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 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 recruired 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	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