ASSOCIATION CONNECT	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 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 Typ http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information				
Supplier Infor	rmation															
Company name*		Company unique ID			Ţ	Unique ID Authority				Respon	Response Date*					
onsemi											2024-0	2024-05-10				
Contact Name		7	Title - Contact			I	Phone - Contact*				Email	Email - Contact*				
Product-Env-Ste	wards	I	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
uthorized Repre	esentative*	7	Title - Representative			I	Phone - Representative*				Email	Email - Representative*				
Product-Env-Ste	wards	I	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
Reque	Requester Item Number Mfr Iter		m Number Mfr Item Name				Effective Date	e Version Manufacturing Site			Weight*	UOM	Unit Type			
		MC74HC377ADWR2 IC FLIP/FLOP OC		CTAL D-TYPI	Е	2024-05-10	PH1			517.71	mg	Each				
Ianufacturin	g Proccess Informatio	on														
Terminal Plating / Grid Array Material Termi			erminal Base Alloy J-STD-020 MSI		L Rating	Peak Process Body Temperature Max Time at Peak			ık Temper	ature Numb	er of Reflow Cyc	eles				
Matte Tin (Sn) - annealed		CU	CU Alloy 3		3		260		С	30	seco	onds 3				
omments																
TTENTION: M	SL 3 Rated item requires B	Bake and Dry	Pack (after	electrical test)												
or more informa	ation regarding material co	omposition pl	ease refer to	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 (DBP), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).											
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 informationprovided 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 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 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	9.33	mg	Supplier	Silicon (Si)	7440-21-3		9.33	mg
Die Attach	20.68			Epoxy resin	proprietary data		2.068	mg
			Supplier	Silver (Ag)	7440-22-4		16.544	mg
			Supplier	Formaldehyde Polymer	9003-36-5		2.068	mg
Lead Frame	323.98		Supplier	Silver (Ag)	7440-22-4		3.2398	mg
			Supplier	Zinc (Zn)	7440-66-6		0.648	mg
			Supplier	Iron (Fe)	7439-89-6		8.4235	mg
			Supplier	Copper (Cu)	7440-50-8		311.6688	mg
Mold Compound-Black	158.46			Epoxy resin	proprietary data		7.923	mg
			Supplier	Phenolic Resin	Proprietary Data		3.1692	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		3.9615	mg
			Supplier	Carbon Black (C)	1333-86-4		0.7923	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		142.614	mg
Plating	4.79	mg	Supplier	Tin (Sn)	7440-31-5		4.79	mg
Wire Bond - Cu	0.47	mg	Supplier	Copper (Cu)	7440-50-8		0.47	mg