IPC ASSOCIATION CO	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bot 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 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 Typhttp://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					rials and M	ials and Mfg Information			
Supplier I	nformation														
Company name*			Company unique ID			ı	Unique ID Authority					Response Date*			
onsemi											2023-06	2023-06-08			
Contact Nam	ne	Title - Contact]	Phone - Contact*				Email -	Email - Contact*				
Product-Env	v-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
authorized R	Representative*	Title - Representative]	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
R	Requester Item Number Mfr Item		n Number Mfr Item Name			Effective Da	ective Date Version Manufacturing S		Manufacturing Site		Weight*	UOM	Unit Type		
		FODM10)09	LSOP4 TR			2023-06-08			CP7		117.85945	mg	Each	
Janufact u	uring Proccess Informa	ation						·						·	
Te	Terminal Plating / Grid Array Material Terminal Base Alloy J-STD			STD-020 MS	L Rating	Peak Pro	ocess Bo	ody Temperatu	ure Max Time at Peal	k Tempera	ture Numbe	er of Reflow Cy	eles		
Matte Tin (Sn) - annealed CU Alloy			1			260		C	30	secoi	nds 3				
Comments															
evel 1 - maxi	imum time at peak temperat	ure during sol	dering is 10-3	0 seconds											
or more info	ormation regarding material	l composition	please 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 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 St											
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
Chip	0.04429	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0437	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0001	mg
			Supplier	Silicon (Si)	7440-21-3		0.0001	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0004	mg
Coating	4.0	mg	Supplier	Silica (SiO2)	14464-46-1		4	mg
Die Attach	0.26	mg	Supplier	Silver (Ag)	7440-22-4		0.2	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.02	mg
			Supplier	Dicyandiamine	461-58-5		0.01	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.02	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.01	mg
Lead Frame	1.808	mg	Supplier	Silver (Ag)	7440-22-4		0.268	mg
			Supplier	Copper (Cu)	7440-50-8		1.54	mg
Mold Compound-Black	74.042	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		9.662	mg
			Supplier	Carbon Black (C)	1333-86-4		0.74	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		6.66	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		5.18	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		51.8	mg
Mold Compound-White	35.0025	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		7.0005	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		24.5017	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		3.5002	mg
Plating	2.5	mg	Supplier	Tin (Sn)	7440-31-5		2.5	mg
PTR Die	0.13266	mg	Supplier	Boron (B)	7440-42-8		0.0007	mg
			Supplier	Silicon (Si)	7440-21-3		0.13	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0007	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0013	mg
Wire Bond - Au	0.07	mg	Supplier	Gold (Au)	7440-57-5		0.07	mg