IPC ASSOCIATION ELECTRONIC	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bo			nder 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					Form Type Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and M	Ifg Inform	ation			
Supplier	r Information															
Company name*			Company unique ID			J	Unique ID Authority					Respon	Response Date*			
onsemi												2023-06	2023-06-08			
Contact N	ame	Title - Contact			1	Phone - Contact*				Email - Contact*						
Product-I	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorize	d Representative*	Title - Representative			1	Phone - Representative*				Email - Representative*						
Product-I	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com						
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective D	ve Date Version N		Manu	Manufacturing Site		Weight*	UOM	Unit Type	
		HCPL2531SD 8PB 1		8PB 1MB 2-CH T	BPB 1MB 2-CH T&R		2023-06-08			ТНН	тнн		542.964	mg	Each	
Manufa	cturing Proccess Informa	tion												,		
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-020 MS		L Rating	Peak Process Body Tempo		rature M	ature Max Time at Peak Te		ture Nur	mber of Reflow C	ycles			
	Matte Tin (Sn) - annealed			CU Alloy 1			225 C		30	30 seco		nds 3				
Comments																
evel 1 - m	aximum time at peak temperati	ure during sol	dering is 10-3	0 seconds												
or more	information regarding material	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 (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 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 uppliers 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 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	
Coupling Gel	Gel 64.0 mg		Supplier	3-Methacryloxypropyltrimethoxysilane (C10H20O5Si)	2530-85-0		64	mg	
Die	0.099	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.033	mg	
			Supplier	Silicon (Si)	7440-21-3		0.066	mg	
Die Attach	0.25	mg	Supplier	Silver (Ag)	7440-22-4		0.2075	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0425	mg	
Lead Frame	115.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.138	mg	
			Supplier	Iron (Fe)	7439-89-6		2.7125	mg	
			Supplier	Copper (Cu)	7440-50-8		112.125	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.0245	mg	
Mold Compound-Black	93.303	mg	Supplier	Brominated Epoxy Resin-2	68541-56-0		2.3325	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		13.995	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.866	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.4695	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		65.31	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.33	mg	
Mold Compound-White	258.662	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		52.4	mg	
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		1.3	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		196.662	mg	
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.6	mg	
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		2.7	mg	
Plating	11.6	mg	Supplier	Tin (Sn)	7440-31-5		11.6	mg	
Wire Bond - Au	0.05	mg	Supplier	Gold (Au)	7440-57-5		0.05	mg	