ASSOCIATION CONNE	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				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					rials and N	ials and Mfg Information			
Supplier Info	ormation														
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*			
onsemi											2024-0	2024-05-03			
Contact Name		Title - Contact			1	Phone - Contact*				Email ·	Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Rep	resentative*	Title - Representative			1	Phone - Representative*				Email ·	Email - Representative*				
Product-Env-St	tewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requ	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Dat	te Versi	ion	Manufacturing Site		Weight*	UOM	Unit Type	
		FOD814ASD 4PB AC		4PB AC TR T&R	PB AC TR T&R		2024-05-03		,	тнн		224.155	mg	Each	
	ing Proccess Informat							·					·		
Terminal Plating / Grid Array Material Terminal Base			Alloy J-S				Peak Process Body Temperature Max Time at Peak								
Matte Tin (Sn) - annealed CU Alloy 1						260		C	30	seco	nds 3				
Comments															
	um time at peak temperatu														
or more inforn	nation regarding material o	composition p	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 information provided 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 part and the company acknowledges that Company and the Supplier share 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	0.74	mg	Supplier	Filler (SiO2)	68909-20-6		0.148	mg
			Supplier	Dimethyl Siloxane	68083-19-2		0.592	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	0.085	mg	Supplier	Silver (Ag)	7440-22-4		0.0697	mg
			Supplier	Dicyandiamine	461-58-5		0.0009	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0145	mg
Lead Frame	55.77	mg	Supplier	Sulfur (S)	7704-34-9		0.0056	mg
			Supplier	Carbon (C)	7440-44-0		0.0558	mg
			Supplier	Manganese (Mn)	7439-96-5		0.1394	mg
			Supplier	Silicon (Si)	7440-21-3		0.0558	mg
			Supplier	Iron (Fe)	7439-89-6		55.5079	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0056	mg
Mold Compound-Black	100.0	mg	В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		2	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.5	mg
			Supplier	Carbon Black (C)	1333-86-4		0.5	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		71	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		17.5	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		7.5	mg
Mold Compound-White	63.2	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		12.64	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		44.24	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		6.32	mg
Plating	4.21	mg	Supplier	Tin (Sn)	7440-31-5		4.21	mg
Wire Bond - Au	0.051	mg	Supplier	Gold (Au)	7440-57-5		0.051	mg