ASSOCIATION CONNEC	© Copyright 2005. II	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.									
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute									ials and Mfg Information				
Supplier Info	rmation				·		·								
Company name*			Company un	Company unique ID			Unique ID Authority					Response Date*			
onsemi												2024-05-05			
Contact Name		Title - Contact			F	Phone - Contact*				Email - Contact*					
Product-Env-Ste	ewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com					
uthorized Repr	esentative*	Title - Representative			F	Phone - Representative*				Email - Representative*					
Product-Env-Ste	ewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com					
Reque	ester Item Number						Effective Dat	te Versi	Version Manufactur		ng Site	Weight*		UOM	Unit Type
							2024-05-05		2.1		18	mg	Each		
Ianufacturi r	ng Proccess Informat	ion													
Termi	nal Plating / Grid Array Ma	Plating / Grid Array Material		Terminal Base Alloy		ISL Rating Peal		ak Process Body Temperature Max		e Max Tin	ne at Peak	ak Temperature Numb		umber of Reflow Cycles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		dAu) (no	CU Alloy		1		260		С	30 sec		second	3		
Comments															
vel 1 - maximui	m time at peak temperatu	re during so	oldering is 10-3	0 seconds											
or more inform	ation 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 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 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 in this form. In the absence of such written agreement, the 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	0.03	mg	Supplier	Silicon (Si)	7440-21-3		0.03	mg
Die Attach Epoxy	0.01	mg		Epoxy resin	proprietary data		0.0065	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.0035	mg
Lead Frame	0.87		Supplier	Zinc (Zn)	7440-66-6		0.001	mg
			Supplier	Iron (Fe)	7439-89-6		0.0204	mg
			Supplier	Copper (Cu)	7440-50-8		0.8483	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0003	mg
Mold Compound-Black	1.22		Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0976	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0061	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0244	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1.0553	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0366	mg
Plating	0.01	mg	Supplier	Palladium (Pd)	7440-05-3		0.0003	mg
			В	Nickel (Ni)	7440-02-0		0.0096	mg
			Supplier	Gold (Au)	7440-57-5		0.0001	mg
Wire Bond - Au	0.04	mg	Supplier	Gold (Au)	7440-57-5		0.04	mg