ASSOCIATION C	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both 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 Type http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					rials and N	ials and Mfg Information			
Supplier I	Information														
Company name*			Company un	Company unique ID			Unique ID Authority					Response Date*			
onsemi											2023-0	2023-06-08			
Contact Nan	ne	Title - Contact]	Phone - Contact*				Email	Email - Contact*				
Product-En	v-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
Authorized 1	Representative*	Title - Representative]	Phone - Representative*				Email	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
F	Requester Item Number Mfr Iter		n Number Mfr Item Name				Effective Date Version Manu		Manufacturing Site	Weight*		UOM	Unit Type		
		FOD8320V SO5 3A GD		SO5 3A GD VDE	VDE		2023-06-08		PBB		197.151	mg	Each		
Manufact	uring Proccess Informa	tion						,						,	
Te	Terminal Plating / Grid Array Material Termin			rminal Base Alloy J-STD-020 MSL		SL Rating	Peak Process Body Tempera		dy Temperatu	ture Max Time at Peak Temper		ature Nur	nber of Reflow Cyc	les	
Matte Tin (Sn) - annealed CU Alloy			1			260		C	30	seco	nds 3				
Comments															
evel 1 - max	ximum time at peak temperati	ire during sol	dering is 10-3	0 seconds											
or more inf	formation 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 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 suppliers 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 have 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 Standard Terms and Conditions of Sale appl											
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		Substance	CAS	Exempt	Weight	Unit of Measure		
Coupling Gel	3.5	3.5 mg Supplier Dimethyl Siloxane		Dimethyl Siloxane	68083-19-2		3.5	mg
Die	1.131	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.071	mg
			Supplier	Silicon (Si)	7440-21-3		1.06	mg
Die Attach	0.223	mg	Supplier	Silver (Ag)	7440-22-4		0.1784	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.0446	mg
Lead Frame	36.392	mg	Supplier	Silver (Ag)	7440-22-4		0.2	mg
			Supplier	Zinc (Zn)	7440-66-6		0.044	mg
			Supplier	Iron (Fe)	7439-89-6		0.837	mg
			Supplier	Copper (Cu)	7440-50-8		35.3	mg
			Supplier	Phosphorus (P)	7723-14-0		0.011	mg
Mold Compound-Black	153.98	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		30.8	mg
			Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		6.16	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		35.4	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		4.62	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		77	mg
Plating	1.69	mg	Supplier	Tin (Sn)	7440-31-5		1.69	mg
Wire Bond - Au	0.235	mg	Supplier	Gold (Au)	7440-57-5		0.235	mg