IPC ASSOCIATION CONNECT: ELECTRONICS INDUSTR	© Copyright 2005. IPC,	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both This	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low 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 Type http://www.ipc.org/IPC-175x Form Type Distribute					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Material					als and Mfg Information			
upplier Infori	mation														
Company name*			Company unique ID			U	Unique ID Authority				Respo	Response Date*			
nsemi											2024-0	2024-05-02			
ontact Name		Title - Contact			P	Phone - Contact*				Email	Email - Contact*				
Product-Env-Stew	vards	Product Enviro Compliance			N	NA				Prod	Product-Env-Stewards@onsemi.com				
uthorized Repres	sentative*	Title - Representative			P	Phone - Representative*			Email	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			N	NA			Produ	Product-Env-Stewards@onsemi.com				
Reques	Requester Item Number Mfr Item		n Number Mfr Item Name			I	Effective Dat	te Vers	rsion	Manufacturing Site		Weight*	UOM	Unit Type	
\top		driv		1PH DRV SENSOR OPEN; Single phase driver with hall sensor method (open loop speed control)			2024-05-02		PHM			130.0	mg	Each	
Ianufacturing	g Proccess Information	n													
Terminal Plating / Grid Array Material Te			Cerminal Base Alloy J-STD-020 MSL		STD-020 MSL Ra	iting	Peak Process Body Temperature Max Time at Pea		ak Temper	k Temperature Number of Reflow Cycles					
contains Bi C			CU Alloy 3				260 C 30			sec	seconds 3				
omments															
TTENTION: MS	SL 3 Rated item requires B	ake and D	ry Pack (after	electrical test)											
or more informat	tion regarding material cor	nposition p	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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 paragraph. If the Company and the 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 have not 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 substa	ances per the definition above	Supplier Ac	ceptance *	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											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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	terial Weight Unit of Measure Level Substance		Substance	CAS	Exempt	Weight	Unit of Measure	
Die	3.55	mg	Supplier	Silicon (Si)	7440-21-3		3.5369	mg
			Supplier	Polyimide	Proprietary Data		0.0131	mg
Die Attach	0.72	mg	Supplier	Silver (Ag)	7440-22-4		0.4899	mg
			Supplier	Epoxy resins	129915-35-1		0.2082	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0157	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0062	mg
Lead Frame	17.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.0323	mg
			Supplier	Iron (Fe)	7439-89-6		0.4403	mg
			Supplier	Copper (Cu)	7440-50-8		16.5036	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0238	mg
Mold Compound-Black	106.6	mg		Epoxy Phenol Resin	proprietary data		12.792	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4264	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		90.1836	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		3.198	mg
Plating	1.8	mg	В	Bismuth (Bi)	7440-69-9		0.0108	mg
-			Supplier	Tin (Sn)	7440-31-5		1.7892	mg
Wire Bond - Au	0.33	mg	Supplier	Gold (Au)	7440-57-5		0.33	mg