IPC ASSOCIATION OF ELECTRONICS I	Material Comp © Copyright 2005. I international and Pa	IPC, Bannockt	ourn, Illinois. A	all rights reserved un						within the manufacturer level materials for wh					
752-21.1		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					ials and Mfg Information			
upplier l	Information														
Company name* Company unique ID				ique ID	Unique ID Au) Authority F			Respon	Response Date*			
nsemi							I				2024-04-27				
ontact Nan	ne		Title - Contact			Pho	Phone - Contact*				Email - Contact*				
Product-En	v-Stewards		Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
uthorized l	Representative*	Title - Repre	Title - Representative			Phone - Representative*				Email - Representative*					
Product-En	v-Stewards		Product Enviro Compliance			NA	NA				Product-Env-Stewards@onsemi.com				
I	Requester Item Number Mfr Item		Number Mfr Item Name			Eff	fective Dat	te Version	1	Manufacturing Site		Weight*	UOM	Unit Type	
				driver with hall ser	R OPEN; Three phases or method (open local)		24-04-27	-04-27 PHM			72.67	mg	Each		
Ianufact	uring Proccess Informa	tion													
Т	Terminal Plating / Grid Array Material Ter		erminal Base Alloy J-STD-02		-STD-020 MSL Ratin	g	Peak Process Body Temp		emperatu	nture Max Time at Peak Te		ture Numb	er of Reflow Cy	cles	
Matte Tin (Sn) - annealed			CU Alloy 3			260 C 30		30	seconds 3						
omments															
<u> TENTIO</u>	N: MSL 3 Rated item require	es Bake and D	ry Pack (after	electrical test)											
or more in	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 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 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 prov											
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	4.3	mg	Supplier	Silicon (Si)	7440-21-3		4.2841	mg
			Supplier	Polyimide	Proprietary Data		0.0159	mg
Die Attach	1.05	mg	Supplier	Silver (Ag)	7440-22-4		0.7822	mg
			Supplier	Epoxy resins	129915-35-1		0.0892	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.021	mg
			Supplier	Acrylic resins	Proprietary Data		0.1575	mg
Lead Frame	38.42	mg	Supplier	Silver (Ag)	7440-22-4		0.1883	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0576	mg
			Supplier	Iron (Fe)	7439-89-6		0.8798	mg
			Supplier	Copper (Cu)	7440-50-8		37.2828	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0115	mg
Mold Compound-Black	27.99	mg		Phenolic Resin	proprietary data		1.1196	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.8193	mg
			Supplier	Carbon Black (C)	1333-86-4		0.084	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		24.9671	mg
Plating	0.64	mg	Supplier	Tin (Sn)	7440-31-5		0.64	mg
Wire Bond - Au	0.27	mg	Supplier	Gold (Au)	7440-57-5		0.27	mg