IPC ASSOCIATION ELECTRONIC	Material Com © Copyright 2005. international and Pa	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder 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.									
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					ous Materia	als and Mi	fg Information	on		
upplier	· Information														
Company name*				Company unique ID			Unique ID Authority					Response Date*			
nsemi												2024-05-02			
ontact N	ame	Title - Contact			I	Phone - Contact*					Email - Contact*				
Product-E	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
uthorize	d Representative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
roduct-E	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number	Mfr Item	n Number	Mfr Item Name			Effective Date	Versi	on	Manufacturing Site		V	Veight*	UOM	Unit Type
		STK984-190-E BLDC Motor		BLDC Motor drive	river		2024-05-02 VN2			4800.0 m		mg	Each		
	cturing Process Information		Terminal Base	Allov	-STD-020 MSI	Rating	Peak Proc	ress Rody	v Temperat	ure May Ti	me at Peak	Temperati	ure Numbe	er of Reflow Cyc	eles
, , , , , , , , , , , , , , , , , , ,		CU Alloy NA			2 Ruting	0	C Representative Max Times C 30		second						
omments			00 1 111 0j	[1]			1,0		10	120		, secon			
Comments															
or more i	information regarding materia	l composition	please refer t	o 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).											
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of						
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
Ceramic Substrate	1043.88	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		452.9395	mg
			В	Nickel (Ni)	7440-02-0		7.7247	mg
			Supplier	Copper (Cu)	7440-50-8		583.2157	mg
Chip Parts	1.12	mg	Supplier	Silver (Ag)	7440-22-4		0.089	mg
			Supplier	Tin (Sn)	7440-31-5		0.0292	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0055	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		0.9641	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0193	mg
			В	Nickel (Ni)	7440-02-0		0.0129	mg
Die	22.68	mg	Supplier	Silicon (Si)	7440-21-3		22.68	mg
Lead Frame	453.69	mg	Supplier	Tin (Sn)	7440-31-5		0.2722	mg
			Supplier	Copper (Cu)	7440-50-8		453.4178	mg
Mold Compound-Black	3183.34	mg		Phenolic Resin	proprietary data		222.8338	mg
			Supplier	Carbon Black (C)	1333-86-4		9.55	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2546.6721	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		404.2842	mg
Plating	1.17	mg	Supplier	Tin (Sn)	7440-31-5		0.7243	mg
			В	Nickel (Ni)	7440-02-0		0.4457	mg
Solder Ball	89.42	mg	Supplier	Silver (Ag)	7440-22-4		2.6558	mg
			Supplier	Tin (Sn)	7440-31-5		86.2724	mg
			В	Antimony (Sb)	7440-36-0		0.0894	mg
			Supplier	Copper (Cu)	7440-50-8		0.4024	mg
Wire Bond	4.7	mg	Supplier	Silicon (Si)	7440-21-3		0.0052	mg
			Supplier	Aluminum (Al)	7429-90-5		4.6948	mg