IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	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 lowe 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 Materials and Mfg Information									
upplier Inform	ation														
Company name* Company unic				ique ID	ue ID Uniq			Unique ID Authority				Response Date*			
nsemi											2023-06-08				
Contact Name			Title - Contact			I	Phone - Contact*					Email - Contact*			
Product-Env-Stewar	rds		Product Enviro Compliance]	NA					Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-Env-Stewards Produ			Product Env	viro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requester	Requester Item Number Mfr I		Number Mfr Item Name			Effective Date	Versi	ion	Manufacturing Site		V	Weight*	UOM	Unit Type	
		STK984-	091A-E	3phase inverter for	r Auto		2023-06-08			VN2		2	20799.98	mg	Each
	Process Information								_						
8		Terminal Base Alloy J-STD-020 MS		L Rating	Peak Process Body Temperature Max Time at		me at Peak	Τ'		r of Reflow Cyc	eles				
Matte Tin	(Sn) - annealed	C	CU Alloy	l N	VA.		0		C	30		secono	ds 3		
omments															
r more informatio	on regarding material co	mposition j	please refer to	o page 3											

RoHS Material Composition Declaration			Declaration 7	Гуре *	Detailed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	RoHS Definition: Quantity limit of 0.01% b (Pb), Mercury (Hg), Hexavalent Chromium phthalate (BBP), Dibutyl phthalate (DBP), I	(Cr6+), Polybrominated Biphenyls (PB			
contains a RoHS restricted substance inexcess encompass all such components. Supplier certi as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided b	ed biphenyls and/or polybrominated diphenyl of an applicable quantity limit, please indicate fies that it gathered the information it provides n. Supplier acknowledges that Company will reverselied on informationprovided by others in a yothers, Supplier agrees that, at a minimum, i and the Supplier enter into a written agreement ource of the Supplier's liability and the Comp	ethers (each a "RoHS restricted substant be below which, if any, RoHS exemption in this form using appropriate method- ely on this certification in determining to completing this form, and that Supplier tssuppliers have provided certifications at with respect to the identified part, the any's remedies for issues that arise reg-	ce") in excess of the appli you believe may apply. If to ensure its accuracy and the compliance of its produce may not have independent regarding their contributions of the	cable quantity limit identified about the part is an assembly with low I that such information is true and cts with European Union membe ly verified such information. How ons to the part, and those certificant agreement, including any warrant.	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not titions are at least as comprehensive as the anty rights and/or remedies provided as part of
RoHS Declaration * 4 - Item(s	does not contain RoHS restricted substances	per the definition above except for sele	ted exemptions	Supplier Acceptance	* Accepted
Exemption: 7c-I Electrical and electronic co	omponents containing lead in a glass or cera	mic other than dielectric ceramic in	apacitors, e.g. piezoelect	ronic devices, or in a glass or co	eramic matrix compound.
Exemption List Version	EL-2011/534/EU				
Declaration Signature					
Instructions: Complete all of the required f Requester) and click on Submit Form to ha		ccepted" on the Supplier Acceptance	drop-down. This will dis	play the signature area. Digital	lly sign the declaration (if required by the
Supplier Digital Signature Ra	astislav Drska	E			

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	5390.57	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		71.6946	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		11.8593	mg
			В	Nickel (Ni)	7440-02-0		9.164	mg
			Supplier	Copper (Cu)	7440-50-8		450.1126	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		1.0781	mg
			Supplier	Aluminum (Al)	7429-90-5		4846.6611	mg
Chip Parts	123.7	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.0124	mg
			Supplier	Silver (Ag)	7440-22-4		1.9792	mg
			Supplier	Epoxy resins	129915-35-1		1.2123	mg
			Supplier	Bisphenol A, Epichlorohydrin polymer	25036-25-3, 25068- 38-6		0.0247	mg
			Supplier	Tin (Sn)	7440-31-5		3.2409	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.6947	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		55.3805	mg
			Supplier	Phenolic resins	Proprietary Data		0.0495	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0124	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		32.6692	mg
			В	Nickel (Ni)	7440-02-0		14.0894	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.1237	mg
			Supplier	Copper (Cu)	7440-50-8		13.2112	mg
Die	31.31	mg	Supplier	Silicon (Si)	7440-21-3		31.2474	mg
			Supplier	Polyimide	Proprietary Data		0.0626	mg
Die Attach	2.61	mg	Supplier	Silver (Ag)	7440-22-4		1.9557	mg
			Supplier	Other Epoxy resins	Proprietary Data		0.4314	mg
			Supplier	Tin (Sn)	7440-31-5		0.0647	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.1091	mg
			В	Antimony (Sb)	7440-36-0		0.006	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0431	mg
Heat Sink	864.79	mg	Supplier	Silver (Ag)	7440-22-4		138.3664	mg
			Supplier	Copper (Cu)	7440-50-8		726.4236	mg
Lead Frame	319.99	mg	Supplier	Iron (Fe)	7439-89-6		0.32	mg

			Supplier	Copper (Cu)	7440-50-8	319.574	mg
			Supplier	Phosphorus (P)	7723-14-0	0.096	mg
Mold Compound-Black	13952.8	mg		Brominated epoxy resin	proprietary data	279.056	mg
			Supplier	Phenolic Resin	Proprietary Data	976.696	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4	279.056	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	9766.96	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	2651.032	mg
Plating	11.51	mg	Supplier	Tin (Sn)	7440-31-5	6.1072	mg
			В	Nickel (Ni)	7440-02-0	5.4028	mg
Solder Ball	34.7	mg	Supplier	Silver (Ag)	7440-22-4	0.9681	mg
			Supplier	Tin (Sn)	7440-31-5	33.5341	mg
			В	Antimony (Sb)	7440-36-0	0.0278	mg
			Supplier	Copper (Cu)	7440-50-8	0.17	mg
Wire Bond - Al	68.0	mg	Supplier	Aluminum (Al)	7429-90-5	68	mg