	Material Comp © Copyright 2005. II International and Part	PC, Bannockb	ourn, Illinois. A	All rights reserved untions.	nder both	This docume level parts, th	ent is a declarati he declaration e	on of the su ncompasses	bstances v all lower	within the manu level materials	facturer liste for which th	ed item. Note: e manufacture	if the item is an as or has engineering	ssembly with low 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 Materials					ls and Mfg Information				
upplie	r Information														
Company name* Company unique ID					1	Unique ID Authority				Resp	Response Date*				
nsemi											2023-	-06-08			
Contact N	lame		Title - Contact]	Phone - Contact*				Emai	Email - Contact*			
Product-H	Env-Stewards		Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*		Title - Representative]	Phone - Representative*			Emai	Email - Representative*				
roduct-I	Env-Stewards		Product Envi	oduct Enviro Compliance NA				Prod	Product-Env-Stewards@onsemi.com						
	Requester Item Number Mfr Item		Number Mfr Item Name		·	Effective Date	Version	N	Manufacturing Site		Weight*	UOM	Unit Type		
		STK984-091B-E 3phase inverte		3phase inverter fo	or Auto		2023-06-08 VN2			20799.98	mg	Each			
Ianufa	cturing Proccess Informat	tion													
	Terminal Plating / Grid Array Material		erminal Base	rminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperat		emperatur	ture Max Time at Peak Tempe		erature Num	ber of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy]	NA		0		С	30	see	conds 3				
omments	3														
or more i	information regarding material	composition	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		mium (Cr6+), Polybrominated Biphenyls (dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-ethers)						
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexcess encompass all such components.Supplier cert as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided certification in this paragraph.If the Company	ted biphenyls and/or polybrominated dip of an applicable quantity limit, please in ifies that it gathered the information it pr m.Supplier acknowledges that Company ve relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr source of the Supplier's liability and the	henyl ethers (each a "RoHS restricted subs ndicate below which, if any, RoHS exempt ovides in this form using appropriate meth will rely on this certification in determinin ers in completing this form, and that Suppl num, itssuppliers have provided certificatio eement with respect to the identified part,t Company's remedies for issues that arise r	stance") in exce ion you believe ods to ensure i g the compliar ier may not ha ons regarding t he terms and co	ropean Union member states) of the part identifiess of the applicable quantity limit identified able may apply. If the part is an assembly with low is accuracy and that such information is true and ce of its products with European Union member independently verified such information. How heir contributions to the part, and those certifica onditions of that agreement, including any warra nation the Supplier provides in this form. In the	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the inty rights and/or remedies provided as part of					
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted subst	ances per the definition above except for se	elected exempt	ions Supplier Acceptance	* Accepted					
Exemption: 7c-I Electrical and electronic c	omponents containing lead in a glass o	r ceramic other than dielectric ceramic	in capacitors,	e.g. piezoelectronic devices, or in a glass or c	eramic matrix compound.					
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.										
Supplier Digital Signature R	astislav Drska	Le								

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.

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
			А	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		1.9546	mg
			Supplier	Other Epoxy resins	Proprietary Data		0.4312	mg
			Supplier	Tin (Sn)	7440-31-5		0.066	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

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).

			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