IPC ASSOCIATION ELECTRONICS	© Copyright 2005.	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	Information													
Company name* Company unique ID			ique ID		Unique ID Authority			Response Date*						
nsemi										2023-06-08				
ontact Na	nme	Title - Contact			I	Phone - Contact*				Email - Contact*				
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uthorized	Representative*	Title - Representative			I	Phone - Representative*			Email - Representative*					
Product-Env-Stewards			Product Env	oduct Enviro Compliance			NA			Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Iter		n Number	Number Mfr Item Name			Effective Date	Version	n	Manufacturing Site		Weight*	UOM	Unit Type
		STK551	U362A-E	3phase inverter HI	С		2023-06-08			VN2		16700.0	mg	Each
	turing Proccess Informateurinal Plating / Grid Array M		Terminal Base	Alloy	-STD-020 MS	I Pating	Dank Proc	ass Rody	Tamparati	ire Max Time at Peak	Tampara	tura Numbe	er of Reflow Cyc	alac
	Matte Tin (Sn) - annealed		CU Allov	. 3	- <u>5 1 D-020 M51</u> V <b>A</b>	L Kathig	0	ess Body	C	30	secoi		of Kellow Cyc	les
	rianc illi (511) - amicalcu		CO Alloy		11.3		T U		10	150	Secol	100 0		
Comments														
or more i	nformation regarding materia	l composition	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% 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 uppliers 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 Standard Terms and Conditions of Sale applicable to such part shall apply.										
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	4832.99	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		79.7443	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		321.8771	mg
			В	Nickel (Ni)	7440-02-0		7.7328	mg
			Supplier	Copper (Cu)	7440-50-8		317.5275	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.9666	mg
			Supplier	Aluminum (Al)	7429-90-5		4105.1421	mg
Chip Parts	44.05	mg	Supplier	Silver (Ag)	7440-22-4		1.1629	mg
			Supplier	Epoxy resins	129915-35-1		0.4053	mg
			Supplier	Tin (Sn)	7440-31-5		1.3083	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.0617	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.7444	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		8.5061	mg
			Supplier	Phenolic resins	Proprietary Data		0.0573	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0044	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		26.8132	mg
			В	Nickel (Ni)	7440-02-0		1.9426	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0573	mg
			Supplier	Copper (Cu)	7440-50-8		2.687	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2995	mg
Die	32.61	mg	Supplier	Silicon (Si)	7440-21-3		32.61	mg
Die Attach	1.79	mg	Supplier	Silver (Ag)	7440-22-4		1.2181	mg
			Supplier	Other Epoxy resins	Proprietary Data		0.2687	mg
			Supplier	Tin (Sn)	7440-31-5		0.1908	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0678	mg
			В	Antimony (Sb)	7440-36-0		0.0177	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0268	mg
Heat Sink	1317.11	mg	Supplier	Silver (Ag)	7440-22-4		12.9077	mg
			Supplier	Copper (Cu)	7440-50-8		1304.2023	mg
Lead Frame	844.45	mg	Supplier	Tin (Sn)	7440-31-5		0.5067	mg
			Supplier	Copper (Cu)	7440-50-8		843.9434	mg
Mold Compound-Black	9527.07	mg		Brominated epoxy resin	proprietary data		190.5414	mg

			Supplier	Phenolic Resin	Proprietary Data	571.6242	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data	190.5414	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4	285.8121	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	952.707	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	666.8949	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	6668.9492	mg
Plating	11.81	mg	Supplier	Tin (Sn)	7440-31-5	5.905	mg
			В	Nickel (Ni)	7440-02-0	5.905	mg
Solder Ball	25.65	mg	Supplier	Silver (Ag)	7440-22-4	0.7156	mg
			Supplier	Tin (Sn)	7440-31-5	24.7882	mg
			В	Antimony (Sb)	7440-36-0	0.0205	mg
			Supplier	Copper (Cu)	7440-50-8	0.1257	mg
Wire Bond	62.47	mg	Supplier	Silicon (Si)	7440-21-3	0.0062	mg
			Supplier	Aluminum (Al)	7429-90-5	62.4638	mg