	international and Par	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.								
52-21.1	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 I	Information												
Company name* Company unique ID				ique ID		Unique ID Authority			Respo	Response Date*			
semi										2023-06-08			
ontact Nam	ne	Title - Contact			F	Phone - Contact*			Email	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			]	NA			Prod	Product-Env-Stewards@onsemi.com		
Authorized Representative*			Title - Representative			F	Phone - Representative*			Email	Email - Representative*		
Product-Env-Stewards P			Product Env	roduct Enviro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com		
R	Requester Item Number	Mfr Item	r Item Number Mfr Item Name			Effective		Version	Manufacturing Si	Manufacturing Site		UOM	Unit Type
		STK551	U392A-E	3phase inverter HI	IC		2023-06-08		VN2		16700.0	mg	Each
	uring Process Information				GTD 000 Mg/	D.	D 1 D	D 1 T		D 1 T			
, , , , , , , , , , , , , , , , , , ,		Terminal Base Alloy J-STD-020 MS			Rating			Γ΄					
	Matte Tin (Sn) - annealed	(	CU Alloy	N	VA.		0	IC.	30	sec	onds 3		
omments													
	formation regarding material	• • • • • • • • • • • • • • • • • • • •	1										

RoHS Material Composition Declaration			Declaration 7	Гуре *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU										
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 cornect 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 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 Islability and the Company's remedies for issues that arise regarding information the Supplier provides in this f										
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	Exemption: 7c-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic 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	4830.7	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		79.7066	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		321.7246	mg
			В	Nickel (Ni)	7440-02-0		7.7291	mg
			Supplier	Copper (Cu)	7440-50-8		317.377	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.9661	mg
			Supplier	Aluminum (Al)	7429-90-5		4103.1968	mg
Chip Parts	48.42	mg	Supplier	Silver (Ag)	7440-22-4		1.1621	mg
			Supplier	Epoxy resins	129915-35-1		0.4067	mg
			Supplier	Tin (Sn)	7440-31-5		1.3993	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.0823	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.7457	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		8.5219	mg
			Supplier	Phenolic resins	Proprietary Data		0.0533	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0048	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		30.3061	mg
			В	Nickel (Ni)	7440-02-0		2.1741	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0581	mg
			Supplier	Copper (Cu)	7440-50-8		3.1086	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.397	mg
Die	36.14	mg	Supplier	Silicon (Si)	7440-21-3		36.14	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	1316.48	mg	Supplier	Silver (Ag)	7440-22-4		12.9015	mg
			Supplier	Copper (Cu)	7440-50-8		1303.5785	mg
Lead Frame	844.05	mg	Supplier	Tin (Sn)	7440-31-5		0.5064	mg
			Supplier	Copper (Cu)	7440-50-8		843.5436	mg
Mold Compound-Black	9522.53	mg		Brominated epoxy resin	proprietary data		190.4506	mg

			Supplier	Phenolic Resin	Proprietary Data	571.3518	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data	190.4506	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4	285.6759	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	952.2531	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	666.5771	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	6665.771	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	25.64	mg	Supplier	Silver (Ag)	7440-22-4	0.7154	mg
			Supplier	Tin (Sn)	7440-31-5	24.7785	mg
			В	Antimony (Sb)	7440-36-0	0.0205	mg
			Supplier	Copper (Cu)	7440-50-8	0.1256	mg
Wire Bond	62.44	mg	Supplier	Silicon (Si)	7440-21-3	0.0062	mg
			Supplier	Aluminum (Al)	7429-90-5	62.4338	mg