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 lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
1752-21.1	IDC Web Site for Information on IDC 1752 Standard Form Type				Form Type * Distribute	:	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
Supplie	r Information													
Company name* Company unique ID					1	Unique ID Authority				Response Date*				
onsemi											2025-05-13			
Contact N	lame		Title - Conta	Contact			Phone - Contact*			Emai	Email - Contact*			
Product-l	Env-Stewards		Product Envi	ro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com			
<b>Authorize</b>	ed Representative*	Title - Repre	Title - Representative			Phone - Representative*			Emai	Email - Representative*				
Product-l	Env-Stewards		Product Envi	oduct Enviro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		Number	ber Mfr Item Name			Effective Date	Pate Version Manufacturing Site		lite	Weight*	UOM	Unit Type	
		STK5411	STK541UC62K-E 3phase inverter HIC		C		2025-05-13		VN5	VN5		mg	Each	
Manufa	cturing Proccess Informa	tion												
	Terminal Plating / Grid Array Material		erminal Base	e Alloy J-STD-020 MSI		Rating	Peak Process Body Temperature Max Time at Pe		t Peak Tempe	k Temperature Number of Reflow Cycles		cles		
	Matte Tin (Sn) - annealed		CU Alloy	7 NA			0	C	30	sec	conds 3			
omments	3			-	•									
or more	information regarding material	composition	nlagga rafor ta	nogo 1										

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 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 of 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	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	4682.79	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		58.5349	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		230.8615	mg
			В	Nickel (Ni)	7440-02-0		7.9607	mg
			Supplier	Acrylic resins	Proprietary Data		3.278	mg
			Supplier	Copper (Cu)	7440-50-8		314.6835	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		2.3414	mg
			Supplier	Aluminum (Al)	7429-90-5		4065.1299	mg
Chip Parts	42.22	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.2539	mg
			Supplier	Silver (Ag)	7440-22-4		1.0808	mg
			Supplier	Epoxy resins	129915-35-1		0.3462	mg
			Supplier	Tin (Sn)	7440-31-5		1.1315	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.0633	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.7642	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		6.1726	mg
			Supplier	Phenolic resins	Proprietary Data		0.0549	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0169	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		25.5515	mg
			В	Nickel (Ni)	7440-02-0		3.1201	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0507	mg
			Supplier	Copper (Cu)	7440-50-8		2.3179	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2955	mg
Die	30.01	mg	Supplier	Silicon (Si)	7440-21-3		30.01	mg
Die Attach	1.57	mg	Supplier	Silver (Ag)	7440-22-4		1.2089	mg
			Supplier	Other Epoxy resins	Proprietary Data		0.2669	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0675	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0267	mg
Lead Frame	785.4	mg	Supplier	Iron (Fe)	7439-89-6		0.7854	mg
			Supplier	Copper (Cu)	7440-50-8		784.379	mg
			Supplier	Phosphorus (P)	7723-14-0		0.2356	mg
Mold Compound-Black	8646.76	mg		Brominated epoxy resin	proprietary data		172.9352	mg
			Supplier	Phenolic Resin	Proprietary Data		518.8056	mg

			Supplier	Epoxy Phenol Resin	Proprietary Data	172.9352	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4	259.4028	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	864.676	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	605.2732	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	6052.7319	mg
Plating	21.09	mg	Supplier	Tin (Sn)	7440-31-5	11.1904	mg
			В	Nickel (Ni)	7440-02-0	9.8996	mg
Solder Ball	45.67	mg	Supplier	Silver (Ag)	7440-22-4	1.4021	mg
			Supplier	Tin (Sn)	7440-31-5	43.9345	mg
			В	Antimony (Sb)	7440-36-0	0.0091	mg
			Supplier	Copper (Cu)	7440-50-8	0.3243	mg
Wire Bond	44.49		Supplier	Silicon (Si)	7440-21-3	0.0044	mg
			Supplier	Aluminum (Al)	7429-90-5	44.4856	mg