IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	**Material Composition Declaration** 	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	IPC Web Site for Information on IPC-1752 Standard **http://www.ipc.org/IPC-175x**	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information

Supplier Information

Company name* **onsemi**	Company unique ID	Unique ID Authority	**Response Date*** **2023-06-08**
Contact Name **Product-Env-Stewards**	Title - Contact Product Enviro Compliance	**Phone - Contact*** **NA**	**Email - Contact*** **Product-Env-Stewards@onsemi.com**
Authorized Representative* **Product-Env-Stewards**	Title - Representative Product Enviro Compliance	**Phone - Representative*** **NA**	**Email - Representative*** **Product-Env-Stewards@onsemi.com**

	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
		STK534U362C-E	3phase inverter HIC	2023-06-08		VN2	13900.0	mg	Each

Manufacturing Proccess Information

	Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature		Max Time at Peak Temperature		Number of Reflow Cycles
	Matte Tin (Sn) - annealed	**CU Alloy**	**NA**	**0**	C	**30**	seconds	**3**

Comments

For more 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	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 informationprovided 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, itssuppliers 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 liability and the Company’s remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms andConditions of Sale applicable to such part shall apply.

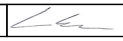
RoHS Declaration *	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions	**Supplier Acceptance ***	**Accepted**

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 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	**Rastislav Drska**		

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
Chip Parts	30.72	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.0092	mg
			Supplier	Silver (Ag)	7440-22-4		1.0691	mg
			Supplier	Epoxy resins	129915-35-1		0.3164	mg
			Supplier	Bisphenol A, Epichlorohydrin polymer	25036-25-3, 25068-38-6		0.0246	mg
			Supplier	Tin (Sn)	7440-31-5		1.0476	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.0276	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.8325	mg
			Supplier	Ceramic	12013-47-7, 12047-27-7		7.1731	mg
			Supplier	Phenolic resins	Proprietary Data		0.0553	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0092	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		17.5503	mg
			B	Nickel (Ni)	7440-02-0		1.2749	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.1505	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		0.0092	mg
			Supplier	Copper (Cu)	7440-50-8		1.1704	mg
DBC	3843.72	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1499.0508	mg
			B	Nickel (Ni)	7440-02-0		38.4372	mg
			Supplier	Copper (Cu)	7440-50-8		2306.2319	mg
Die	29.39	mg	Supplier	Silicon (Si)	7440-21-3		29.39	mg
Die Attach	0.06	mg	Supplier	Tin (Sn)	7440-31-5		0.0549	mg
			B	Antimony (Sb)	7440-36-0		0.0051	mg
Heat Sink	850.31	mg	Supplier	Silver (Ag)	7440-22-4		136.0496	mg
			Supplier	Copper (Cu)	7440-50-8		714.2604	mg
Lead Frame	515.44	mg	Supplier	Tin (Sn)	7440-31-5		0.3093	mg
			Supplier	Copper (Cu)	7440-50-8		515.1307	mg
Mold Compound-Black	8502.16	mg		Brominated epoxy resin	proprietary data		20.4052	mg
			Supplier	Phenolic Resin	Proprietary Data		440.4119	mg
			B	Antimony Trioxide (Sb2O3)	1309-64-4		15.3039	mg
			Supplier	Carbon Black (C)	1333-86-4		34.8589	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		596.0015	mg

			Supplier	Fused Silica (SiO2)	60676-86-0		5585.9189	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		935.2376	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		874.022	mg
Plating	1.03	mg	Supplier	Tin (Sn)	7440-31-5		1.03	mg
Solder Ball	61.83	mg	Supplier	Silver (Ag)	7440-22-4		1.8734	mg
			Supplier	Tin (Sn)	7440-31-5		59.5176	mg
			B	Antimony (Sb)	7440-36-0		0.0185	mg
			Supplier	Copper (Cu)	7440-50-8		0.4204	mg
Wire Bond - Al	65.34	mg	Supplier	Aluminum (Al)	7429-90-5		65.34	mg