IPC ASSOCIATION ELECTRONIC	Material Comp © Copyright 2005. Il international and Par	PC, Bannockb	ourn, Illinois. A	All rights reserved un	nder both	This docume level parts, the	ent is a declara he declaration	tion of the s encompasse	ubstances es all lowe	within the	manufactur terials for w	er listed it hich the m	em. Note: i	if the item is an as or has engineering	sembly with lowe responsibility.
1752-21.1	Porm Type http://www.ipc.org/IPC-175x Standard 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												2023-06-07			
Contact N	Vame		Title - Contact			]	Phone - Contact*					Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*	Title - Representative			]	Phone - Representative*				Email - Representative*					
Product-1	Env-Stewards		Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number	Number Mfr Item Name			Effective Dat	e Version	Version Manufacturing Site		V	Veight*	UOM	Unit Type	
		STK672-732AN-E Stepping mo		Stepping motor dr	iver		2023-06-07 VN2			3	400.0	mg	Each		
Manufa	ecturing Process Informa	tion													
	Terminal Plating / Grid Array Material		erminal Base	rminal Base Alloy J-STD-020 MSI		L Rating	Peak Pro	Peak Process Body Temperature Ma		e Max T	ime at Peak	Temperatu	ıre Numl	ber of Reflow Cyc	eles
	Matte Tin (Sn) - annealed	C	CU Alloy	N	NA		0		С	30		secono	ls 3		
Comments	S														
		·		<u> </u>				·			·				
or more	information regarding material	composition	please refer to	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 suppliers 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 have not 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 provide											
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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Ceramic Substrate	1203.5	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		7.1006	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		46.6958	mg
			В	Nickel (Ni)	7440-02-0		2.0459	mg
			Supplier	Acrylic resins	Proprietary Data		0.8424	mg
			Supplier	Copper (Cu)	7440-50-8		82.3194	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6018	mg
			Supplier	Aluminum (Al)	7429-90-5		1063.894	mg
Chip Parts	32.73	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		0.0033	mg
			Supplier	Silver (Ag)	7440-22-4		0.6677	mg
			Supplier	Epoxy resins	129915-35-1		0.2586	mg
			Supplier	Tin (Sn)	7440-31-5		1.1652	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.1669	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.6939	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		6.1925	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0491	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0131	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		20.6624	mg
			В	Nickel (Ni)	7440-02-0		1.5776	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0884	mg
			Supplier	Copper (Cu)	7440-50-8		1.1914	mg
Die	5.01	mg	Supplier	Silicon (Si)	7440-21-3		5	mg
			Supplier	Polyimide	Proprietary Data		0.01	mg
Lead Frame	470.17	mg	Supplier	Tin (Sn)	7440-31-5		0.2821	mg
			Supplier	Copper (Cu)	7440-50-8		469.8879	mg
Mold Compound-Black	1677.66	mg		Brominated epoxy resin	proprietary data		33.5532	mg
			Supplier	Phenolic Resin	Proprietary Data		117.4362	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		33.5532	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1174.3621	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		318.7554	mg
Plating	0.95	mg	Supplier	Tin (Sn)	7440-31-5		0.5881	mg
			В	Nickel (Ni)	7440-02-0		0.3619	mg

Solder Ball	8.73	mg	Supplier	Silver (Ag)	7440-22-4	0.2436	mg
			Supplier	Tin (Sn)	7440-31-5	8.4367	mg
			В	Antimony (Sb)	7440-36-0	0.007	mg
			Supplier	Copper (Cu)	7440-50-8	0.0428	mg
Wire Bond	1.25	mg	Supplier	Silicon (Si)	7440-21-3	0.0038	mg
			Supplier	Aluminum (Al)	7429-90-5	1.2462	mg