IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	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				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information									
upplier Inform	ation														
Company name* Company unique ID					J	Unique ID Authority					Response Date*				
nsemi												2023-06-08			
ontact Name		Title - Contact			I	Phone - Contact*					Email - Contact*				
Product-Env-Stewa	rds	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-Env-Stewards Pr				roduct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requester	Requester Item Number Mfr Iten		n Number Mfr Item Name			Effective Date	Versi	on	Manufacturing Site			Weight*	UOM	Unit Type	
		STK672-442BN-E Stepping motor d		Stepping motor dr	iver	2023-06-0		VN2			3400.0		mg	Each	
	Process Information														
3 · · · · · · · · · · · · · · · · · · ·				-STD-020 MS	L Rating		ess Body			ime at Peak	T .		er of Reflow Cyc	cles	
<u> </u>	(Sn) - annealed	C	CU Alloy	N	NA		0		C	30		secon	ids 3		
omments															
r more informatio	on regarding material co	mposition]	please refer t	o page 3											

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 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 near 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 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 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	1205.08	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		7.11	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		46.7571	mg
			В	Nickel (Ni)	7440-02-0		2.0486	mg
			Supplier	Acrylic resins	Proprietary Data		0.8436	mg
			Supplier	Copper (Cu)	7440-50-8		82.4275	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6025	mg
			Supplier	Aluminum (Al)	7429-90-5		1065.2906	mg
Chip Parts	25.62	mg	Supplier	Silver (Ag)	7440-22-4		0.4227	mg
			Supplier	Epoxy resins	129915-35-1		0.2126	mg
			Supplier	Tin (Sn)	7440-31-5		0.8301	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.041	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.2178	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		8.2163	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		11.1754	mg
			В	Nickel (Ni)	7440-02-0		1.8011	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0256	mg
			Supplier	Copper (Cu)	7440-50-8		2.4749	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2024	mg
Die	8.96	mg	Supplier	Silicon (Si)	7440-21-3		8.9475	mg
			Supplier	Polyimide	Proprietary Data		0.0125	mg
Lead Frame	470.79	mg	Supplier	Tin (Sn)	7440-31-5		0.2825	mg
			Supplier	Copper (Cu)	7440-50-8		470.5075	mg
Mold Compound-Black	1679.85	mg		Brominated epoxy resin	proprietary data		33.597	mg
			Supplier	Phenolic Resin	Proprietary Data		117.5895	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		33.597	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1175.895	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		319.1715	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	7.29	mg	Supplier	Silver (Ag)	7440-22-4		0.2034	mg
			Supplier	Tin (Sn)	7440-31-5		7.0451	mg

			В	Antimony (Sb)	7440-36-0	0.0058	mg
			Supplier	Copper (Cu)	7440-50-8	0.0357	mg
Wire Bond	1.46	mg	Supplier	Silicon (Si)	7440-21-3	0.0058	mg
			Supplier	Aluminum (Al)	7429-90-5	1.4542	mg