	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.										
	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 Informati	ion														
Company name* Company unique ID					Ţ	Unique ID Authority					Response Date*				
nsemi											2023-06-08				
Contact Name		7	Title - Contact			I	Phone - Contact*					Email - Contact*			
Product-Env-Stewards	S	I	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorized Representa	Title - Representative			I	Phone - Representative*				Email - Representative*						
Product-Env-Stewards Product Enviro Compliance						NA					Product-Env-Stewards@onsemi.com				
Requester Ite	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Date	Versi	on	Manufacturing Site		V	Veight*	UOM	Unit Type	
		STK672-64	42AN-E	Stepping motor dr	iver		2023-06-08			VN2		3	380.0	mg	Each
	occess Information				GET 000 140					1			- I		
3			Terminal Base Alloy J-STD-020 M			L Rating	Peak Process Body Temperature Max Time at P		me at Peak	T '		er of Reflow Cyc	cles		
`	Sn) - annealed	CU	Alloy	l N	JA .		0		C	30		secono	ds 3		
omments															
r more information 1	regarding material com	iposition pl	ease 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 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 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 and Conditions of Sale applicable to such											
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	1117.12	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		6.3676	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		42.4506	mg
			В	Nickel (Ni)	7440-02-0		2.0108	mg
			Supplier	Acrylic resins	Proprietary Data		0.782	mg
			Supplier	Copper (Cu)	7440-50-8		39.6578	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6703	mg
			Supplier	Aluminum (Al)	7429-90-5		1025.181	mg
Chip Parts	28.99	mg	Supplier	Silver (Ag)	7440-22-4		0.2087	mg
			Supplier	Epoxy resins	129915-35-1		0.0203	mg
			Supplier	Bisphenol A, Epichlorohydrin polymer	25036-25-3, 25068- 38-6		0.0319	mg
			Supplier	Tin (Sn)	7440-31-5		0.89	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.1826	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.3653	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		4.8964	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0232	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0058	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		18.945	mg
			В	Nickel (Ni)	7440-02-0		1.4031	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0319	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		0.0058	mg
			Supplier	Copper (Cu)	7440-50-8		1.7829	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1971	mg
Die	8.03	mg	Supplier	Silicon (Si)	7440-21-3		8.0204	mg
			Supplier	Polyimide	Proprietary Data		0.0096	mg
Lead Frame	463.27	mg	Supplier	Tin (Sn)	7440-31-5		0.278	mg
			Supplier	Copper (Cu)	7440-50-8		462.992	mg
Mold Compound-Black	1717.18	mg		Brominated epoxy resin	proprietary data		34.3436	mg
			Supplier	Phenolic Resin	Proprietary Data		120.2026	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		34.3436	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1202.026	mg

			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	326.2642	mg
Plating	0.93	mg	Supplier	Tin (Sn)	7440-31-5	0.5758	mg
			В	Nickel (Ni)	7440-02-0	0.3542	mg
Solder Ball	43.16	mg	Supplier	Silver (Ag)	7440-22-4	1.3423	mg
			Supplier	Tin (Sn)	7440-31-5	41.4983	mg
			В	Antimony (Sb)	7440-36-0	0.0043	mg
			Supplier	Copper (Cu)	7440-50-8	0.3151	mg
Wire Bond	1.32	mg	Supplier	Silicon (Si)	7440-21-3	0.0046	mg
			Supplier	Aluminum (Al)	7429-90-5	1.3154	mg