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					*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information								
upplier Inform	ation						·								
Company name* Company unique ID				ique ID		Unique ID Authority					Response Date*				
nsemi											2024-04-20				
ontact Name		Title - Contact			I	Phone - Contact*					Email - Contact*				
Product-Env-Stewar	rds	Product Enviro Compliance]	NA					Product-Env-Stewards@onsemi.com				
uthorized Represen	ntative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-Stewards Product Enviro Compl				iro Compliance		NA Product-Env-Stewards@onsemi.com					om				
Requester	r Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Versio	n	Manufacturing Site		ľ	Weight*	UOM	Unit Type
		STK672-	640AN-E	Stepping motor dr	river		2024-04-20			VN2		3	8850.0	mg	Each
	Process Information									1			ļ., .		
3		Terminal Base Alloy J-STD-020 MS		L Rating	Peak Process Body Temperature Max Time at Pe		me at Peak								
' ·	(Sn) - annealed	C	U Alloy	1	NA		0		C	30		secon	ds 3		
omments															
r more informatio	n regarding material co	mposition p	please refer t	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 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 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 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 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	1187.77	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		7.0078	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		46.0855	mg
			В	Nickel (Ni)	7440-02-0		2.0192	mg
			Supplier	Acrylic resins	Proprietary Data		0.8314	mg
			Supplier	Copper (Cu)	7440-50-8		81.2435	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.5939	mg
			Supplier	Aluminum (Al)	7429-90-5		1049.9886	mg
Chip Parts	29.04	mg	Supplier	Silver (Ag)	7440-22-4		0.2091	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		0.8915	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.183	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.3659	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		4.9049	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		18.9776	mg
			В	Nickel (Ni)	7440-02-0		1.4055	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		1.786	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1975	mg
Die	8.04	mg	Supplier	Silicon (Si)	7440-21-3		8.0304	mg
			Supplier	Polyimide	Proprietary Data		0.0096	mg
Lead Frame	464.03	mg	Supplier	Tin (Sn)	7440-31-5		0.2784	mg
			Supplier	Copper (Cu)	7440-50-8		463.7516	mg
Mold Compound-Black	2150.0	mg		Brominated epoxy resin	proprietary data		43	mg
			Supplier	Phenolic Resin	Proprietary Data		150.5	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		43	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1505	mg

			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	408.5	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	8.87	mg	Supplier	Silver (Ag)	7440-22-4	0.2475	mg
			Supplier	Tin (Sn)	7440-31-5	8.572	mg
			В	Antimony (Sb)	7440-36-0	0.0071	mg
			Supplier	Copper (Cu)	7440-50-8	0.0435	mg
Wire Bond	1.32	mg	Supplier	Silicon (Si)	7440-21-3	0.0046	mg
			Supplier	Aluminum (Al)	7429-90-5	1.3154	mg