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 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			lard	Form Type Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information								
Supplie	r Information														
Company name* Company un				y unique ID			Unique ID Authority				Response Date*				
onsemi												2023-06-	06		
Contact Name			Title - Contact]	Phone - Contact*				Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative]	Phone - Representative*				Email - Representative*				
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Item		Mfr Item	Number Mfr Item Name				Effective Date Version Manufacturi		ring Site	Weight*		UOM	Unit Type		
		STK672-	430AN-E	Stepping motor dr	iver		2023-06-06			VN2		3	900.0	mg	Each
Manufa	cturing Proccess Informat	tion													
Terminal Plating / Grid Array Material T		Cerminal Base Alloy J-STD-020 MS		-STD-020 MSI	_ Rating	Peak Process Body Temperati		ure Max Time at Peak Tempera		Temperati	ure Numb	ber of Reflow Cyc	eles		
	Matte Tin (Sn) - annealed	C	CU Alloy	N	IA.		0		С	30		second	ds 3		
Comments	S														
or more	information regarding material	compositi <mark>on</mark> j	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% b (Pb), Mercury (Hg), Hexavalent Chromium phthalate (BBP), Dibutyl phthalate (DBP), I	(Cr6+), Polybrominated Biphenyls (PB			
contains a RoHS restricted substance inexcess encompass all such components. Supplier certi as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided b	ed biphenyls and/or polybrominated diphenyl of an applicable quantity limit, please indicate fies that it gathered the information it provides n. Supplier acknowledges that Company will reverselied on informationprovided by others in a yothers, Supplier agrees that, at a minimum, i and the Supplier enter into a written agreement ource of the Supplier's liability and the Comp	ethers (each a "RoHS restricted substant be below which, if any, RoHS exemption in this form using appropriate method- ely on this certification in determining to completing this form, and that Supplier tssuppliers have provided certifications at with respect to the identified part, the any's remedies for issues that arise reg-	ce") in excess of the appli you believe may apply. If to ensure its accuracy and the compliance of its produce may not have independent regarding their contributions of the	cable quantity limit identified about the part is an assembly with low I that such information is true and cts with European Union membe ly verified such information. How ons to the part, and those certificant agreement, including any warrant.	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not titions are at least as comprehensive as the anty rights and/or remedies provided as part of
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	1205.8	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		7.1142	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		46.785	mg
			В	Nickel (Ni)	7440-02-0		2.0499	mg
			Supplier	Acrylic resins	Proprietary Data		0.8441	mg
			Supplier	Copper (Cu)	7440-50-8		82.4767	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6029	mg
			Supplier	Aluminum (Al)	7429-90-5		1065.9272	mg
Chip Parts	23.34	mg	Supplier	Silver (Ag)	7440-22-4		0.3688	mg
			Supplier	Epoxy resins	129915-35-1		0.1867	mg
			Supplier	Tin (Sn)	7440-31-5		0.7819	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.042	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.1914	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		7.2914	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		10.671	mg
			В	Nickel (Ni)	7440-02-0		1.2043	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.0233	mg
			Supplier	Copper (Cu)	7440-50-8		2.3783	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2007	mg
Die	6.51	mg	Supplier	Silica Amorphous (SiO2)	7631-86-9		0.015	mg
			Supplier	Silicon (Si)	7440-21-3		6.4944	mg
			Supplier	Polyimide	Proprietary Data		0.0007	mg
Lead Frame	471.07	mg	Supplier	Tin (Sn)	7440-31-5		0.2826	mg
			Supplier	Copper (Cu)	7440-50-8		470.7874	mg
Mold Compound-Black	2182.63	mg		Brominated epoxy resin	proprietary data		43.6526	mg
			Supplier	Phenolic Resin	Proprietary Data		152.7841	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		43.6526	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1527.8409	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		414.6997	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	8.36	mg	Supplier	Silver (Ag)	7440-22-4		0.2332	mg

			g 1:	m: (g)	7440.21.5	0.0701		
			Supplier	Tin (Sn)	7440-31-5	8.0791	mg	
			В	Antimony (Sb)	7440-36-0	0.0067	mg	
			Supplier	Copper (Cu)	7440-50-8	0.041	mg	
Wire Bond	1.34	mg	Supplier	Silicon (Si)	7440-21-3	0.0047	mg	
			Supplier	Aluminum (Al)	7429-90-5	1.3353	mg	