IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. Al international and Pan-American copyright conven			nder both									the item is an as has engineering	
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 Materia					als and Mfg Information				
uppliei	r Information														
Company name* Company unique ID				nique ID		Unique ID Authority					Response Date*				
nsemi											2024-05-03				
ontact N	ame		Title - Contact			F	Phone - Contact*					Email - Contact*			
roduct-I	Env-Stewards		Product Enviro Compliance]	NA					Product-Env-Stewards@onsemi.com			
uthorize	d Representative*	Title - Repre	Title - Representative			Phone - Representative*				Email - Representative*					
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	Requester Item Number Mfr Item		n Number	Number Mfr Item Name			Effective Date	ffective Date		ing Site	V	/eight*	UOM	Unit Type	
		STK682	-010-Е	Stepping motor dr	river		2024-05-03			VN2		3	900.0	mg	Each
lanufa	cturing Proccess Inform	ation													·
	Terminal Plating / Grid Array Material		Terminal Base	rminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperature Max Time at		me at Peak	Temperatu	re Numb	er of Reflow Cyc	cles		
	Matte Tin (Sn) - annealed	(CU Alloy	N	NA		0		C	30		second	s 3		
omments	}														
or more i	information regarding materia	al composition	please refer t	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led							
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 enter 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 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 St												
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	cceptance *	Accepted							
Exemption: If the declared item does not applicable exemptions.	contain RoHS restricted substances per	the definition above except for defined Ro	oHS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all							
Exemption List Version	EL-2011/534/EU											
Declaration Signature												
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the							
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the							

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	1155.57	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		6.5867	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		43.9117	mg
			В	Nickel (Ni)	7440-02-0		2.08	mg
			Supplier	Acrylic resins	Proprietary Data		0.8089	mg
			Supplier	Copper (Cu)	7440-50-8		41.0227	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6933	mg
			Supplier	Aluminum (Al)	7429-90-5		1060.4666	mg
Chip Parts	18.91	mg	Supplier	Silver (Ag)	7440-22-4		0.0227	mg
			Supplier	Bisphenol A, Epichlorohydrin polymer	25036-25-3, 25068- 38-6		0.0076	mg
			Supplier	Tin (Sn)	7440-31-5		0.4614	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.0151	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.034	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		11.953	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.9776	mg
			В	Nickel (Ni)	7440-02-0		2.5056	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		0.0019	mg
			Supplier	Copper (Cu)	7440-50-8		2.9311	mg
Die	14.56	mg	Supplier	Silicon (Si)	7440-21-3		14.5061	mg
			Supplier	Polyimide	Proprietary Data		0.0539	mg
Lead Frame	479.21	mg	Supplier	Tin (Sn)	7440-31-5		0.2875	mg
			Supplier	Copper (Cu)	7440-50-8		478.9225	mg
Mold Compound-Black	2220.35	mg		Brominated epoxy resin	proprietary data		44.407	mg
			Supplier	Phenolic Resin	Proprietary Data		155.4245	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		44.407	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1554.245	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		421.8665	mg
Plating	0.96	mg	Supplier	Tin (Sn)	7440-31-5		0.5943	mg
			В	Nickel (Ni)	7440-02-0		0.3657	mg
Solder Ball	9.17	mg	Supplier	Silver (Ag)	7440-22-4		0.2558	mg
			Supplier	Tin (Sn)	7440-31-5		8.8619	mg

			В	Antimony (Sb)	7440-36-0	0.0073	mg
			Supplier	Copper (Cu)	7440-50-8	0.0449	mg
Wire Bond	1.27	mg	Supplier	Silicon (Si)	7440-21-3	0.0038	mg
			Supplier	Aluminum (Al)	7429-90-5	1.2662	mg