	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder both	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	.1 IPC Web Site for Information on IPC-1752 Standard Form Type Distribute				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information									
upplie	r Information														
Company name* Company unique ID					1	Unique ID Authority				Respo	Response Date*				
nsemi											2024-	2024-04-25			
ontact N	Jame		Title - Contact]	Phone - Contact*				Emai	Email - Contact*			
Product-	Env-Stewards		Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com			
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Product-Env-Stewards			Product Envi	Product Enviro Compliance NA Product-Env-Stewards@ons					wards@onsemi.co	@onsemi.com					
	Requester Item Number Mfr Item		Number	ber Mfr Item Name Effective Date Version Manufacturing Site		e	Weight*	UOM	Unit Type						
		STK681	STK681-360-E DC brush motor d		lriver		2024-04-25		١	VN2		3900.0	mg	Each	
Ianufa	cturing Proccess Informa	tion													
	Terminal Plating / Grid Array Material		Terminal Base	Alloy J	J-STD-020 MSL I		Peak Proc	k Process Body Temperature Max Time at Per		Peak Tempe	rature Num	ber of Reflow Cy	cles		
Matte Tin (Sn) - annealed		CU Alloy	ſ	NA		0		С	30	sec	onds 3				
omments	3														
or more	information regarding material	composition	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		mium (Cr6+), Polybrominated Biphenyls (dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-ethers)					
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexcess encompass all such components.Supplier cert as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided certification in this paragraph.If the Company	ted biphenyls and/or polybrominated dip of an applicable quantity limit, please in ifies that it gathered the information it pr m.Supplier acknowledges that Company ve relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr source of the Supplier's liability and the	henyl ethers (each a "RoHS restricted subs ndicate below which, if any, RoHS exempt ovides in this form using appropriate meth will rely on this certification in determinin ers in completing this form, and that Suppl num, itssuppliers have provided certificatio eement with respect to the identified part,t Company's remedies for issues that arise r	stance") in exce ion you believe ods to ensure i g the compliar ier may not ha ons regarding t he terms and co	ropean Union member states) of the part identifiess of the applicable quantity limit identified able may apply. If the part is an assembly with low is accuracy and that such information is true and ce of its products with European Union member independently verified such information. How heir contributions to the part, and those certifica onditions of that agreement, including any warra nation the Supplier provides in this form. In the	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the inty rights and/or remedies provided as part of				
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted subst	ances per the definition above except for se	elected exempt	ions Supplier Acceptance	* Accepted				
Exemption: 7c-I Electrical and electronic c	omponents containing lead in a glass o	r ceramic other than dielectric ceramic	in capacitors,	e.g. piezoelectronic devices, or in a glass or c	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 R	astislav Drska	Le							

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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Ceramic Substrate	1115.09	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		6.356	mg
		-	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		42.3734	mg
			В	Nickel (Ni)	7440-02-0		2.0072	mg
			Supplier	Acrylic resins	Proprietary Data		0.7806	mg
			Supplier	Copper (Cu)	7440-50-8		39.5857	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		0.6691	mg
			Supplier	Aluminum (Al)	7429-90-5		1023.3181	mg
Chip Parts	21.8	mg	Supplier	Silver (Ag)	7440-22-4		0.1635	mg
			Supplier	Bisphenol A, Epichlorohydrin polymer	25036-25-3, 25068- 38-6		0.0632	mg
			Supplier	Tin (Sn)	7440-31-5		0.6257	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.1526	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.2463	mg
			Supplier	Ceramic	12013-47-7, 12047- 27-7		3.1261	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0022	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		14.0479	mg
			В	Nickel (Ni)	7440-02-0		1.72	mg
			А	Lead Oxide (PbO)	1317-36-8	7c	0.0065	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		0.0131	mg
			Supplier	Copper (Cu)	7440-50-8		1.4344	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1984	mg
Die	6.11	mg	Supplier	Silicon (Si)	7440-21-3		6.1063	mg
			Supplier	Polyimide	Proprietary Data		0.0037	mg
Die Attach	0.91	mg	Supplier	Silver (Ag)	7440-22-4		0.7007	mg
			Supplier	Other Epoxy resins	Proprietary Data		0.1547	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0391	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0155	mg
ead Frame	462.43	mg	Supplier	Tin (Sn)	7440-31-5		0.2775	mg
			Supplier	Copper (Cu)	7440-50-8		462.1525	mg
Mold Compound-Black	2285.41	mg		Brominated epoxy resin	proprietary data		45.7082	mg
			Supplier	Phenolic Resin	Proprietary Data		159.9787	mg

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).

			В	Antimony Trioxide (Sb2O3)	1309-64-4	45.7082	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	1599.7869	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2	434.2279	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	6.7	mg	Supplier	Silver (Ag)	7440-22-4	0.1869	mg
			Supplier	Tin (Sn)	7440-31-5	6.4749	mg
			В	Antimony (Sb)	7440-36-0	0.0054	mg
			Supplier	Copper (Cu)	7440-50-8	0.0328	mg
Wire Bond	0.62	-	Supplier	Silicon (Si)	7440-21-3	0.0062	mg
			Supplier	Aluminum (Al)	7429-90-5	0.6138	mg