ASSOCIATION CONNECT	Material Composit © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved un tions.	nder both	This docume level parts, t	ent is a declarat	ion of the s encompasse	ubstances s all lower	within the manufactur r level materials for w	rer listed i hich the n	em. Note: i anufacture	if the item is an as r has engineering	ssembly with low responsibility.	
1752-21.1	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 Materi					als and Mfg Information				
Supplier Infor	mation														
Company name*			Company unique ID			-	Unique ID Authority					Response Date*			
onsemi											2024-05-03				
Contact Name		Title - Contact				Phone - Contact*				Email - Contact*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Repre	esentative*	Title - Representative				Phone - Representative*				Email - Representative*					
Product-Env-Stev	wards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site		,	Weight*	UOM	Unit Type		
		LB1973J.	31973JA-AH Stepping Motor Driv		river		2024-05-03		P	PHM	:	30.0	mg	Each	
Anufacturin	g Proccess Information	1													
Termin	Terminal Plating / Grid Array Material Terr			erminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperatur		e Max Time at Peak	Temperat	ure Numb	per of Reflow Cyc	cles		
contains Bi CU Alloy			U Alloy	3	5		260		С	30	secon	ds 3			
omments															
ITENTION: M	SL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)											
or more informa	tion regarding material com	position 1	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	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).										
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and co for issues that arise regarding inform	ce of its products with European Union membe	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 anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav 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
Die	2.92	mg	Supplier	Silicon (Si)	7440-21-3		2.9092	mg
			Supplier	Polyimide	Proprietary Data		0.0108	mg
Die Attach	0.79	mg	Supplier	Silver (Ag)	7440-22-4		0.5609	mg
			Supplier	Epoxy resins	129915-35-1		0.2291	mg
Lead Frame	6.56	mg	Supplier	Zinc (Zn)	7440-66-6		0.0085	mg
			Supplier	Iron (Fe)	7439-89-6		0.1542	mg
			Supplier	Copper (Cu)	7440-50-8		6.3921	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0052	mg
Mold Compound-Black	68.43	mg		Epoxy Phenol Resin	proprietary data		8.2116	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2737	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		57.8918	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		2.0529	mg
Plating	1.13	mg	В	Bismuth (Bi)	7440-69-9		0.0068	mg
			Supplier	Tin (Sn)	7440-31-5		1.1232	mg
Wire Bond - Cu	0.17	mg	Supplier	Copper (Cu)	7440-50-8		0.17	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).