ASSOCIATION CONNECTING ASSOCIATION CONNECTING LECTRONICS INDUSTRIES® international and Pa	IPC. Bannockb	ourn. Illinois. A	Il rights reserved un ntions.	nder both	This docum level parts, t	ent is a declaration en	n of the substance	ces within the manufactur wer level materials for w	rer listed ite hich the m	em. Note: if anufacturer	the item is an as has engineering	sembly with low responsibility.	
	21.1 IPC Web Site for Information on IPC-1752 Standard Form bits in the standard point of the standard point o				 Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information 					on			
Supplier Information													
Company name* Compan			ompany unique ID			Unique ID Authority				Response Date*			
onsemi								2023-06-08					
Contact Name Title - Contact			ct		Phone - Contact*			Email - Contact*					
Product-Env-Stewards Product Enviro			viro Compliance		NA			Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - Representative			sentative	ntative Pl		Phone - Representative*			Email - Representative*				
Product-Env-Stewards Product E			duct Enviro Compliance		NA			Product-Env-Stewards@onsemi.com					
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	Manufacturing Site		Veight*	UOM	Unit Type	
	LV8747	47TA-NH STEPPING MOTOR		OR DRIVER		2023-06-08		PHM	1	40.0	mg	Each	
Anufacturing Proccess Informa	ition										•		
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material Terminal Base All		Alloy J	-STD-020 MSL	Rating	Peak Proce	ss Body Temper	ature Max Time at Peak	Temperatu	ire Numb	er of Reflow Cyc	eles	
Matte Tin (Sn) - annealed CU Alloy 3					260	С	30	second	ls 3				
omments													
FTENTION: MSL 3 Rated item requir	es Bake and D	ry Pack (after	electrical test)										
or more information regarding materia	l composition	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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).									
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 cc 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.

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

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	11.15	mg	Supplier	Silicon (Si)	7440-21-3		11.1087	mg
			Supplier	Polyimide	Proprietary Data		0.0413	mg
Die Attach	2.08	mg	Supplier	Silver (Ag)	7440-22-4		1.6224	mg
			Supplier	Epoxy resins	129915-35-1		0.416	mg
			Supplier	Polybutadiene polymer	Proprietary Data		0.0416	mg
Lead Frame	49.8	mg	Supplier	Silver (Ag)	7440-22-4		0.7968	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0548	mg
			Supplier	Iron (Fe)	7439-89-6		1.1504	mg
			Supplier	Copper (Cu)	7440-50-8		47.7682	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0299	mg
Mold Compound-Black	72.97	mg		Epoxy Phenol Resin	proprietary data		0.0365	mg
			Supplier	Carbon Black (C)	1333-86-4		0.3284	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		64.2136	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		8.3916	mg
Plating	3.1	mg	Supplier	Tin (Sn)	7440-31-5		3.1	mg
Wire Bond	0.9	mg	Supplier	Palladium (Pd)	7440-05-3		0.009	mg
			Supplier	Gold (Au)	7440-57-5		0.891	mg