	Material Composit © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn. Illinois. A	ll rights reserved untions.	under both	This docum level parts,	ent is a declar the declaration	ration of n encon	of the substance mpasses all low	es within the manufa ver level materials for	octurer lister or which the	d item. Note: if e manufacturer	the item is an a has engineering	ssembly with lower 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 Mater					als and Mfg Information				
Supplier In	offriation														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi												2023-06-08			
Contact Name	e	Title - Contact			Phone - Contact*				Emai	Email - Contact*					
Product-Env-	-Stewards	Product Enviro Compliance				NA				Prod	Product-Env-Stewards@onsemi.com				
Authorized R	epresentative*	Title - Representative			Phone - Representative*				Emai	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Prod	Product-Env-Stewards@onsemi.com				
Re	equester Item Number	Mfr Item Number Mfr Item Name LV8163QA-BH 1PH DRV SENSC driver with hall se speed control)		Number Mfr Item Name			Effective Da	ate Ve	ersion	Manufacturing Site		Weight*	UOM	Unit Type	
						2023-06-08				11.4	mg	Each			
Manufactu	ring Proccess Information	ı													
Ter	Terminal Plating / Grid Array Material Terminal Base Alloy			Alloy	J-STD-020 MSL	MSL Rating Peak Process Body Temperature Max Time at				ure Max Time at F	eak Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30	sec	onds 3					
Comments															
evel 1 - maxir	mum time at peak temperature o	luring sol	dering is 10-3	0 seconds											
'or more info	ormation regarding material com	position]	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	amending RoHS 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.

sigma range of distribution unless otherwise noted).									
Homogeneous Material	eneous Material Weight Unit of Measure I		Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	0.5	mg	Supplier	Silicon (Si)	7440-21-3		0.4981	mg	
			Supplier	Polyimide	Proprietary Data		0.0019	mg	
Die Attach	0.13	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.026	mg	
			Supplier	Silver (Ag)	7440-22-4		0.104	mg	
Lead Frame	3.03	mg	Supplier	Silver (Ag)	7440-22-4		0.0609	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.003	mg	
			Supplier	Iron (Fe)	7439-89-6		0.073	mg	
			Supplier	Copper (Cu)	7440-50-8		2.893	mg	
Mold Compound-Black	6.61	mg		Epoxy Phenol Resin	proprietary data		0.7932	mg	
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0992	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		5.7176	mg	
Plating	0.99	mg	Supplier	Tin (Sn)	7440-31-5		0.99	mg	
Wire Bond - Au	0.14	mg	Supplier	Gold (Au)	7440-57-5		0.14	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 signa range of distribution unless otherwise noted)