ASSOCIATION CONNECTING ASSOCIATION CONNECTING ELECTROMICS INDUSTRIES International and Pan-American co	ourn, Illinois, All rights reserved un	der both This docur level parts,	nent is a declaratio , the declaration en	n of the substance compasses all low	es within the manufacture ver level materials for wh	er listed item. Note: if hich the manufacturer l	the item is an as has engineering	sembly with lower responsibility.		
752-21.1 IPC Web Site for Information on I http://www.ipc.org/IPC-175x	eb Site for Information on IPC-1752 Standard Form Type www.ipc.org/IPC-175x Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information						
Supplier Information										
Company name*	ny name* Company unique ID			Unique ID Authority			Response Date*			
emi						2023-06-08				
Contact Name	Title - Contact		Phone - Contact*			Email - Contact*				
Product-Env-Stewards	ards Product Enviro Compliance		NA			Product-Env-Stewards@onsemi.com				
Authorized Representative*	zed Representative* Title - Representative		Phone - Representative*			Email - Representative*				
Product-Env-Stewards		NA			Product-Env-Stewards@onsemi.com					
Requester Item Number Mfr Item	Number Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type		
LV56091	V-TLM-E CCD Vertical Cloc	ck Driver	2023-06-08		РНМ	100.0	mg	Each		
Manufacturing Proccess Information					·					
Terminal Plating / Grid Array Material T	Cerminal Base Alloy J-	-STD-020 MSL Rating	Peak Proces	ss Body Temperat	ure Max Time at Peak	Temperature Numbe	r of Reflow Cyc	eles		
contains Bi	contains Bi CU Alloy 3		260	С	30	seconds 3				
Comments										
ATTENTION: MSL 3 Rated item requires Bake and D	Pry Pack (after electrical test)									
For 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	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 v 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	3.01	mg	Supplier	Silicon (Si)	7440-21-3		2.9989	mg
			Supplier	Polyimide	Proprietary Data		0.0111	mg
Die Attach	0.74	mg	Supplier	Silver (Ag)	7440-22-4		0.5035	mg
			Supplier	Epoxy resins	129915-35-1		0.214	mg
			Supplier	Other Metal Oxide	Proprietary Data		0.0161	mg
			В	Antimony Pentoxide (Sb2O5)	1314-60-9		0.0064	mg
Lead Frame	5.07	mg	Supplier	Zinc (Zn)	7440-66-6		0.0066	mg
			Supplier	Iron (Fe)	7439-89-6		0.1191	mg
			Supplier	Copper (Cu)	7440-50-8		4.9402	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0041	mg
Mold Compound-Black	89.48	mg		Brominated epoxy resin	proprietary data		0.8948	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.7158	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.8948	mg
			Supplier	Carbon Black (C)	1333-86-4		0.8948	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		75.1632	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		10.7376	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.179	mg
Plating	1.42	mg	В	Bismuth (Bi)	7440-69-9		0.0085	mg
			Supplier	Tin (Sn)	7440-31-5		1.4115	mg
Wire Bond - Au	0.28	mg	Supplier	Gold (Au)	7440-57-5		0.28	mg