ABSOCIATION CONNECTING ELECTRONICE INDUSTRIES® INCLUSTRIES®	ckburn, Illinois, A	ll rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	tion of the s encompass	substances es all lowe	within the r er level mate	nanufacture rials for wh	er listed item ich the manu	Note: if	f the item is an as has engineering	sembly with lowe responsibility.
2-21.1 IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials a					ls and Mfg I	and Mfg Information			
Supplier Information													
Company name* Company unique ID				Unique ID Authority						Response Date*			
nsemi										2023-06-08			
Contact Name	Title - Contact				Phone - Contact*					Email - Contact*			
oduct-Env-Stewards Product Enviro Compliance				NA						Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative				Phone - Representative*					Email - Representative*				
Product-Env-Stewards Product Enviro Complian			pliance		NA				Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr I	tem Number	Mfr Item Name			Effective Dat	e Version	1	Manufacturing Site		Wei	ght*	UOM	Unit Type
NLV	V14559BDWR2G LOG CMOS SHIFT		FT REG APPRO	ЭХ	2023-06-08 PH		PH1			01	mg	Each	
Manufacturing Proccess Information		·			·							·	· · ·
Terminal Plating / Grid Array Material	rial Terminal Base Alloy J-STD-020 I			Rating	Peak Process Body Temperature Max Time at Peak				ne at Peak T	Temperature Number of Reflow Cycles			
Matte Tin (Sn) - annealed CU Alloy 1			1		260		С	30		seconds	3		
Comments													
evel 1 - maximum time at peak temperature during	soldering is 10-3	0 seconds											
or more information regarding material composit	on please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(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	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	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	5.84	mg	Supplier	Silicon (Si)	7440-21-3		5.84	mg		
Die Attach	16.72	mg	Supplier	Silver (Ag)	7440-22-4		12.54	mg		
			Supplier	Epoxy resins	129915-35-1		4.18	mg		
Lead Frame 2	261.87	mg	Supplier	Silver (Ag)	7440-22-4		2.8806	mg		
			Supplier	Zinc (Zn)	7440-66-6		0.5237	mg		
			Supplier	Iron (Fe)	7439-89-6		6.8086	mg		
			Supplier	Copper (Cu)	7440-50-8		251.6571	mg		
Mold Compound-Black	133.38	mg		Epoxy resin	proprietary data		6.669	mg		
			Supplier	Phenolic Resin	Proprietary Data		6.669	mg		
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.6676	mg		
			Supplier	Carbon Black (C)	1333-86-4		0.6669	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		116.7075	mg		
Plating	3.83	mg	Supplier	Tin (Sn)	7440-31-5		3.83	mg		
Wire Bond - Cu	0.37	mg	Supplier	Copper (Cu)	7440-50-8		0.37	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