ASSOCIATION CONNECTING ASSOCIATION CONNECTING LECTRONICS INDUSTRIES® international and Pa	IPC. Bannockb	ourn. Illinois. A	Il rights reserved un ntions.	nder both	This docume level parts, t	ent is a declaration er	on of the subs compasses a	stances wi ll lower le	ithin the manufacture evel materials for wh	er listed	item. Note: if nanufacturer	the item is an as has engineering	ssembly with low responsibility.
				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform					lfg Informati	on		
Supplier Information													
Company name* Compa			ompany unique ID			Unique ID Authority				Response Date*			
onsemi								2023-06-08					
Contact Name Title - Contact			ct	Phone - Co			contact*			Email - Contact*			
Product-Env-Stewards Product Envi			Enviro Compliance			NA			Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Repres			resentative			Phone - Representative*			Email - Representative*				
Product-Env-Stewards Produ			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	Ma	Manufacturing Site		Weight*	UOM	Unit Type
	MC1449	MC14490DWG LOG CMOS BOUI		NCE ELIMIN	TR	2023-06-08 PH1		1	422.01		mg	Each	
Ianufacturing Proccess Informa	ntion												·
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material Terminal Base Alloy J-		-STD-020 MSL	Rating	Peak Proce	ss Body Tem	perature	Max Time at Peak	Tempera	ture Numb	er of Reflow Cyc	cles	
Matte Tin (Sn) - annealed CU Alloy 3					260	C	2	30	seco	nds 3			
omments													
TTENTION: 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), 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	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	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