ASSOCIATION CONNECTING ELECTRONICS INDUSTRES® international and Pa	IPC, Bannockl	ourn, Illinois. A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	tion of the sencompass	substances es all lowe	within the n er level mater	nanufacture rials for wh	er listed ite	m. Note: nufacture	if the item is an as er has engineering	ssembly with low responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Ty http://www.ipc.org/IPC-175x Distribut				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ous Materia	als and Mfg Information				
Supplier Information															
Company name* Cor			Company unique ID			Unique ID Authority					Response Date*				
onsemi												2024-05-15			
Contact Name Title - Contact			ct	Pt			Phone - Contact*				Email - Contact*				
Product-Env-Stewards Product Env			Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Authorized Representative* Title - Repr			Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards Product			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Requester Item Number	Requester Item Number Mfr Item		n Number Mfr Item Name			Effective Da	e Versior	1	Manufacturing Site		W	eight*	UOM	Unit Type	
	NCV431	NCV431BVDR2G ANA 2.5V PR		OG SHUNT REF		2024-05-15			PH1		71	.99	mg	Each	
Anufacturing Proccess Inform	ation														
Terminal Plating / Grid Array M	minal Plating / Grid Array Material Terminal Base Allo		Alloy	J-STD-020 MSI	L Rating	Peak Pro	cess Body	Гетрегаtu	re Max Tin	ne at Peak '	Temperatu	e Num	ber of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30		second	3				
omments															
vel 1 - maximum time at peak tempera	ture during so	Idering is 10-3	0 seconds												
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), Disobutyl 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 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.

sigma range of distribution unless otherwise noted).									
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg	
Die Attach	2.4	mg	Supplier	Silver (Ag)	7440-22-4		1.8	mg	
			Supplier	Epoxy resins	129915-35-1		0.6	mg	
Lead Frame	37.61	mg	Supplier	Silver (Ag)	7440-22-4		0.2257	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.0451	mg	
			Supplier	Iron (Fe)	7439-89-6		0.8838	mg	
			Supplier	Copper (Cu)	7440-50-8		36.4441	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.0113	mg	
Mold Compound-Black	28.58	mg		Epoxy resin	proprietary data		1.429	mg	
			Supplier	Phenolic Resin	Proprietary Data		1.429	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.5716	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.1429	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		25.0075	mg	
Plating	1.89	mg	Supplier	Tin (Sn)	7440-31-5		1.89	mg	
Wire Bond - Cu	0.18	mg	Supplier	Copper (Cu)	7440-50-8		0.18	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 sigma range of distribution unless otherwise noted).