C	Material Composit Copyright 2005. IPC, International and Pan-An	Bannockbi	urn, Illinois. A	Il rights reserved untions.	under both	This docum level parts,	ent is a decla the declaratic	ration of n encom	the substance passes all low	s within the man er level materials	ufacturer li s for which	isted item. No h the manufact	ote: if the it turer has er	tem is an asse ngineering res	mbly with lower ponsibility.	
					Form Type Distribute	e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information				
Supplier Information	on															
Company name*			Company unique ID			Unique ID Authority					Response Date*					
onsemi												2023-06-08				
Contact Name T			Title - Contact			Phone - Contact*				Er	Email - Contact*					
Product-Env-Stewards			Product Enviro Compliance			NA				P	Product-Env-Stewards@onsemi.com					
Authorized Representative*			Title - Representative			Phone - Representative*			Er	Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance			NA				P	Product-Env-Stewards@onsemi.com					
Requester Ite	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective D	ate Ve	rsion	Manufacturing Site		Weight*	* U	JOM	Unit Type	
		NCV431BVDR2G		ANA 2.5V PROG SHUNT REF			2023-06-08			PH1		71.99	n	ng	Each	
Manufacturing Pro	occess Information	ı														
Terminal Plating / Grid Array Material Terminal B			erminal Base A	Alloy	J-STD-020 MS	L Rating	Peak P	rocess Bo	ody Temperati	ure Max Time a	t Peak Ter	mperature N	umber of F	Reflow Cycle	5	
Matte Tin (Sn) - annealed CU Alloy				1		260		С	30		seconds 3					
Comments																
level 1 - maximum time	at peak temperature d	uring sole	dering is 10-3	0 seconds												
For more information re	egarding material com	position p	please refer to	page 3												

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	ective 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), 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 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 contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.												
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).