© Copyright	Composition De 2005. IPC, Bannockl and Pan-American co	ourn, Illinois. A	Ill rights reserved untions.	under both le	his docume vel parts, tl	ent is a declara he declaration	ation of the encompa	e substance sses all low	s within the manufac er level materials fo	cturer listed	l item. Note: manufacture	if the item is an as er has engineering	ssembly with lower responsibility.
				Form Type * Distribute					terials and	ials and Mfg Information			
Supplier Information													
Company name*	Company unique ID			ι	Unique ID Authority				Respo	Response Date*			
onsemi									2022-0	2022-02-11			
Contact Name	Title - Conta	Title - Contact			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative*	Title - Representative			1	Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Requester Item Number Mfr Iten		n Number Mfr Item Name			Effective Da	te Versi	on	Manufacturing Site		Weight*	UOM	Unit Type
	NCV219	NCV21912DMR2G Dual Precision OF Low Noise		pAmp, 2MHz BW	, Ultra	2022-02-11 MY1		MY1		31.93	mg	Each	
Manufacturing Proccess Inf	formation												
Terminal Plating / Grid Array Material Termin		Cerminal Base	al Base Alloy J-STD-020 MSL Ratin		Rating	Peak Process Body Temperature Max Time at		re Max Time at Pe	ak Temper	ak Temperature Number of Reflow Cycles			
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1		260		С	30	sec	onds 3		
Comments													
level 1 - maximum time at peak ten	nperature during so	ldering is 10-3	0 seconds										
For more information regarding m	naterial 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), Dibutyl 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.32	mg	Supplier	Silicon (Si)	7440-21-3		1.32	mg
Die Attach	0.91	mg	Supplier	Silver (Ag)	7440-22-4		0.6825	mg
			Supplier	Epoxy resins	129915-35-1		0.2275	mg
Lead Frame	14.26	mg	Supplier	Silver (Ag)	7440-22-4		0.3565	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0143	mg
			Supplier	Iron (Fe)	7439-89-6		0.3422	mg
			Supplier	Copper (Cu)	7440-50-8		13.547	mg
Mold Compound-Black	14.96	mg		Phenolic Resin	proprietary data		0.748	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.2992	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.748	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0748	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		13.09	mg
Plating	0.38	mg	Supplier	Tin (Sn)	7440-31-5		0.38	mg
Wire Bond	0.1	mg	Supplier	Palladium (Pd)	7440-05-3		0.001	mg
			Supplier	Copper (Cu)	7440-50-8		0.099	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 signa range of distribution unless otherwise noted)