	Material Composit © Copyright 2005. IPC, I international and Pan-An	Bannockbi	urn, Illinois. A	ll rights reserved untions.	under both level	s docume l parts, tl	ent is a decla he declaratio	ration of n encom	the substances passes all lowe	s within the manufactu er level materials for v	urer listed which the u	item. Note: nanufacture	if the item is an as er has engineering	sembly with lower responsibility.	
1752-21.1					Form Type * Distribute					rials and Mfg Information					
Supplier Inform	ation														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi											2024-05	2024-05-07			
Contact Name			Title - Contact			1	Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*			Email -	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Requeste	Requester Item Number Mfr Item		Number Mfr Item Name			Effective D	ate Vei	rsion	Manufacturing Site		Weight*	UOM	Unit Type		
		NCS2003SN2T1G		LOW VOLTAGE RAIL TO RAIL OP-AMP		2024-05-07					14.08	mg	Each		
Manufacturing	Proccess Information	I							·						
Terminal Plating / Grid Array Material Terminal			erminal Base A	Base Alloy J-STD-020 MSL Rating		ting	Peak Process Body Temperature Max Time at Peak			k Tempera	Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy				1		260		С	30	seco	nds 3				
Comments															
level 1 - maximum t	ime at peak temperature d	uring sole	dering is 10-3	0 seconds											
For more information	on regarding material com	position p	olease 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 (DBP), Dibutyl phthalate (DBP).											
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.

Homogeneous Material Weigh		Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.42	mg	Supplier	Silicon (Si)	7440-21-3		0.42	mg
Die Attach	0.11	mg		Epoxy resin	proprietary data		0.033	mg
			Supplier	Fatty acids, C18-unsatd., dimers, polymers with epichlorhydrin	68475-94-5		0.033	mg
			Supplier	2,2'-[[2-(oxiranylmethoxy)-1,3- phenylene]bis(methylene)]bisoxirane	13561-08-5		0.033	mg
			Supplier	4-Methyl-2-Phenyl-1H-Imidazole	827-43-0		0.0099	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0011	mg
Lead Frame	5.78	mg	Supplier	Silver (Ag)	7440-22-4		0.0705	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0069	mg
			Supplier	Iron (Fe)	7439-89-6		0.1358	mg
			Supplier	Copper (Cu)	7440-50-8		5.565	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0017	mg
Mold Compound-Black	7.34	mg		Epoxy resin	proprietary data		0.367	mg
			Supplier	Phenolic Resin	Proprietary Data		0.367	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.1468	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0367	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		6.4225	mg
lating	0.39	mg	Supplier	Tin (Sn)	7440-31-5		0.39	mg
Wire Bond - Au	0.04	mg	Supplier	Gold (Au)	7440-57-5		0.04	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).