ASSOCIATION CONNE	© Copyright 2005. IF	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.											
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				e * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						als and Mf	g Infor	rmation			
Supplier Info	rmation																
Company name*	:	Company uni	Company unique ID			Unique ID Authority					Response Date*						
onsemi													2023-06-08				
Contact Name		Title - Contac	Title - Contact			Phone - Contact*					Email - Contact*						
Product-Env-Sto	ewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com						
Authorized Representative* Title - I				Title - Representative			Phone - Representative*				Email - Representative*						
Product-Env-Sto	ewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com							
Reque	ester Item Number	er Item Number Mfr Iten		Item Number Mfr Item Name			Effective Da	Date Version M		Manufacturing Site		W	eight* UOM		UOM	Unit Type	
		NLVHC4052ADTR2G ANALOG			ΓIPLEXERS/D	EMUL	2023-06-08		I	PH1		4-	44.58 mg		ng	Each	
<b>Ianufacturi</b> r	ng Proccess Informat	ion															
Termin	nal Plating / Grid Array Ma	Plating / Grid Array Material		Terminal Base Alloy		020 MSL Rating		Peak Process Body Temperature		e Max Ti	Max Time at Peak Temper		re N	lumber of	Reflow Cyc	les	
Precio Sn)	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy 1		1		260		С		30 seco		s 3				
Comments																<u> </u>	
vel 1 - maximu	m time at peak temperatu	re during so	ldering is 10-3	0 seconds													
or more inform	ation regarding material o	composition	please refer to	page 3													

RoHS Material Composition Declaration			Declaration Type *	Detail	ed							
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).												
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.												
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	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												
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the							

## **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.

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).

Homogeneous Material	Weight	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	0.22	mg		Epoxy resin	proprietary data		0.022	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.011	mg
			Supplier	Silver (Ag)	7440-22-4		0.176	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.011	mg
Lead Frame	20.76	mg	Supplier	Zinc (Zn)	7440-66-6		0.0249	mg
			Supplier	Iron (Fe)	7439-89-6		0.4879	mg
			Supplier	Copper (Cu)	7440-50-8		20.241	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0062	mg
Mold Compound-Black	20.86	mg		Epoxy resin	proprietary data		1.5645	mg
			Supplier	Phenolic Resin	Proprietary Data		0.5215	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.5645	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1043	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		17.1052	mg
Plating	2.12	mg	Supplier	Palladium (Pd)	7440-05-3		0.1611	mg
			В	Nickel (Ni)	7440-02-0		1.9292	mg
			Supplier	Gold (Au)	7440-57-5		0.0297	mg
Wire Bond - Cu	0.2	mg	Supplier	Copper (Cu)	7440-50-8		0.2	mg