ASSOCIATION CONNECT	© Copyright 2005, IPC	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 lower 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 Typ http://www.ipc.org/IPC-175x Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					als and Mf	g Informa	tion	
Supplier Info	mation														
Company name*			Company unique ID			ī	Unique ID Authority					Response Date*			
nsemi												2024-04-19			
Contact Name		Title - Contact			I	Phone - Contact*					Email - Contact*				
Product-Env-Ste	wards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
uthorized Repro	esentative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Reque	quester Item Number Mfr Iter		n Number	Mfr Item Name			Effective Dat	e Versio	Version Ma		lanufacturing Site		eight*	UOM	Unit Type
		LM324ADTBR2G ANA LO I		ANA LO PWR (PWR OP AMP QUAD		2024-04-19 PH1		'H1	1 :		1.764	mg	Each	
Ianufacturin	g Proccess Informatio	on					,								•
Termin	nal Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MS	-020 MSL Rating		Peak Process Body Temperatur		re Max Time at Peak Temper		Temperatu	ature Number of Reflow Cycles		eles
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy		1		260		C 30			seconds 3			
Comments															
vel 1 - maximun	n time at peak temperature	during so	ldering is 10-3	30 seconds											
or more informa	ation regarding material co	mposition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an						
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the company that the company tha	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the hts and/or remedies provided as part of				
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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									
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recruired by the				
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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	1.476	mg	Supplier	Silicon (Si)	7440-21-3		1.476	mg
Die Attach	0.191	mg		Epoxy resin	proprietary data		0.0439	mg
			Supplier	Silver (Ag)	7440-22-4		0.1471	mg
Lead Frame	14.903	mg	Supplier	Silver (Ag)	7440-22-4		0.6796	mg
			Supplier	Magnesium (Mg)	7439-95-4		0.0209	mg
			Supplier	Silicon (Si)	7440-21-3		0.0924	mg
			В	Nickel (Ni)	7440-02-0		0.4262	mg
			Supplier	Copper (Cu)	7440-50-8		13.6839	mg
Mold Compound-Black	34.856	mg		Epoxy resin	proprietary data		1.7428	mg
			Supplier	Phenol Resin	Proprietary Data		1.3942	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.4856	mg
			Supplier	Carbon Black (C)	1333-86-4		0.3486	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		27.8848	mg
Plating	0.239	mg	Supplier	Tin (Sn)	7440-31-5		0.239	mg
Wire Bond	0.099	mg	Supplier	Palladium (Pd)	7440-05-3		0.002	mg
			Supplier	Copper (Cu)	7440-50-8		0.097	mg