ASSOCIATION CONNE	© Copyright 2005. I	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.										
1752-21.1		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	rmation															
Company name*			Company unique ID			1	Unique ID Authority					Response Date*				
onsemi													2024-05-17			
Contact Name			Title - Contact			1	Phone - Contact*					Email - Contact*				
Product-Env-Ste	ewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com					
uthorized Repr	esentative*	Title - Representative			]	Phone - Representative*				Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	uester Item Number Mfr Iter		m Number Mfr Item Name				Effective Date	e Versio	n l	Manufacturing Site		W	eight*	UOM	Unit Type	
		NCS20081MUTAG R2R C		R2R Output Sing	22R Output Single Amplifier		2024-05-17 MY1		.Y1		3.	6718	mg	Each		
Ianufacturir	ng Proccess Informa	tion														
Termin	nal Plating / Grid Array Ma	Plating / Grid Array Material		Terminal Base Alloy		0-020 MSL Rating		Peak Process Body Temperatur		re Max Time at Peak Temper		Temperatu	rature Number of Reflow Cycles		eles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		C 30			second	s <b>3</b>			
Comments																
vel 1 - maximu	m time at peak temperatı	ire during so	ldering is 10-3	0 seconds												
or more inform	ation regarding material	composition	please refer to	page 3												

RoHS Material Composition Declaration			Declaration Type *	Detail	ed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a		
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of
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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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	0.344	mg	Supplier	Silicon (Si)	7440-21-3		0.344	mg
Die Attach Epoxy	0.115	mg		Epoxy resin	proprietary data		0.0747	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.0402	mg
Lead Frame	0.6842	mg	Supplier	Silver (Ag)	7440-22-4		0.0001	mg
			Supplier	Magnesium (Mg)	7439-95-4		0.0012	mg
			Supplier	Silicon (Si)	7440-21-3		0.0051	mg
			Supplier	Copper (Cu)	7440-50-8		0.6777	mg
Mold Compound-Black	2.456	mg	Supplier	Epoxy resins	129915-35-1		0.1228	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.1228	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0098	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0565	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2.0876	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0565	mg
Plating	0.0326	mg	Supplier	Palladium (Pd)	7440-05-3		0.0012	mg
			В	Nickel (Ni)	7440-02-0		0.0312	mg
			Supplier	Gold (Au)	7440-57-5		0.0002	mg
Wire Bond - Au	0.04	mg	Supplier	Gold (Au)	7440-57-5		0.04	mg