© Copyri	al Composition E ight 2005. IPC, Bannoo onal and Pan-American	kburn, Illinois. A	Ill rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	ation of the encompass	substance ses all low	s within the manufac er level materials for	turer listed which the	l item. Note: manufactur	if the item is an as er has engineering	ssembly with lower responsibility.	
				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					erials and I	als and Mfg Information			
Supplier Information														
Company name*			Company unique ID			Unique ID Authority					Response Date*			
onsemi										2024-0	2024-05-21			
Contact Name Title			Title - Contact			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Pr			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title			Fitle - Representative			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Requester Item Num	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Da	te Versio	n	Manufacturing Site		Weight*	UOM	Unit Type	
	NCV5	NCV51510MNTAG 3A, DDR		DDR MEMORY TERM REG		2024-05-21			PH1		30.0	mg	Each	
Manufacturing Proccess	Information													
Terminal Plating / Grid Array Material Terminal Bas		Terminal Base	Alloy	J-STD-020 MSI	Rating	Peak Pro	cess Body	Temperatu	are Max Time at Pe	ak Temper	ature Num	ber of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy			1		260		С	30	seco	onds 3				
Comments														
level 1 - maximum time at peak	temperature during	soldering is 10-3	0 seconds											
For more information regarding	g material composition	n 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), Diisobutyl 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 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	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.

sigma range of distribution unless otherwise noted).										
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	0.3	mg	Supplier	Silicon (Si)	7440-21-3		0.3	mg		
Die Attach	0.79	mg	Supplier	Silver (Ag)	7440-22-4		0.5925	mg		
			Supplier	Epoxy resins	129915-35-1		0.1975	mg		
Lead Frame	12.41	mg	Supplier	Silver (Ag)	7440-22-4		2.4448	mg		
			Supplier	Zinc (Zn)	7440-66-6		0.0124	mg		
			Supplier	Iron (Fe)	7439-89-6		0.1861	mg		
			Supplier	Copper (Cu)	7440-50-8		9.7667	mg		
Mold Compound-Black	15.0	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		1.2	mg		
			Supplier	Carbon Black (C)	1333-86-4		0.075	mg		
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.3	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		12.975	mg		
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.45	mg		
Plating	0.6	mg	Supplier	Tin (Sn)	7440-31-5		0.6	mg		
Wire Bond - Au	0.9	mg	Supplier	Gold (Au)	7440-57-5		0.9	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