	© Cop	terial Compo pyright 2005. IPC, Bannoc ternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lo		parts, the	declaratio	on encon		er level mate	rials for v	vhich th	item is an assembly e manufacturer has eclaration.		
1/32-2 1.1		Neb Site for Informat //www.ipc.org/IPC-1	C-1752 Standa	ard		Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat							
Supplier Information																
Company Name *		Company Unique ID		Unique ID Authority			Response Date *			Response Doc						
Cypress Semiconductor CorpCYPRESS							-05-13									
Contact Name * Title - Contact				Phone - Contact *			il - Contac	:t *								
Richard Oshiro QA Engrg Director				408/943-2102			rgo@cypress.com			Duplicate Contact -> Authorized Representative						
Authorized Representative * Title - Representative			9	Phone - Representative *			Email - Representative *			Supplier Comments or URL for Additional Information						
Glorioso Lutrinia EH & S Manager		EH & S Manager Sr.	632 8128161			lge@	lge@cypress.com			http://app.cypress.com/portal/server.pt?space=Communi						
Requester Item Number	r [Mfr Item Number		Mfr Item Name		Effect	Effective Date V		Manufa	cturing Site	Weight *	UON	Λ	Unit Type		
	TSOP II 32			TSOP II 32		2009	-05-20		OSE Ta	aiwan	376	mg		Each		
Alternate Recommenda	ation						Alternate Item C			comments Package QTP No. 043102						
Manufacturing Proces	ss Inf	formation														
Terminal Plating / Grid Array I	Materi	al	Terminal B	ase Alloy	J-STD-020 MS	L Rating	Peak Proc	cess Body	Tempera	ature Max Time	at Peak Temp	perature N	lumber o	f Reflow Cycles		
			CU Alloy	/ 3			260 (20 se	conds 3	5	-		
Compliant to RoHS requ	ireme	ents														

Save the fields in this form to a file	Export Data	Import fields from a file into this form	Import Data	Clear all of the fields on this form	Reset Form	Lock the fields on this form to prevent chan	Look Cumption Fields						
RoHS Material	RoHS Material Composition Declaration Declaration Declaration Type * Detailed												
		limit of 0.1% by mass (100 thers (PBDE) and quantity	, .				ominated Biphenyls (PBB),						
chromium, polybrominate excess of an applicable of gathered the information Company will rely on this completing this form, and certifications regarding the conditions of that agreen	ed biphenyls and/or polybrominated quantity limit, please indicate below it provides in this form using approp certification in determining the com I that Supplier may not have independent rein contributions to the part, and the nent, including any warranty rights a	which, if any, RoHS exemption you b priate methods to ensure its accuracy apliance of its products with European andently verified such information. Ho pose certifications are at least as comp	icted substance") in excess believe may apply. If the p y and that such information n Union member state laws bowever, in situations where prehensive as the certification that agreement, will be the s	of the applicable quantity limit bart is an assembly with lower I is true and correct to the best of that implement the RoHS Dire Supplier has not independentl on in this paragraph. If the Co ole and exclusive source of the	identified above. If a homogene- evel components, the declaration of its knowledge and belief, as of ctive. Company acknowledges to y verified information provided by mpany and the Supplier enter into a Supplier's liability and the Comp	eous material within the part cont n shall encompass all such comp f the date that Supplier complete that Supplier may have relied on y others, Supplier agrees that, at to a written agreement with response upany's remedies for issues that a	tains a RoHS restricted substance in ponents. Supplier certifies that it s this form. Supplier acknowledges that						
RoHS Declaration	n * 1 - Item(s) does not contain	RoHS restricted substances per th	he definition above			Supplier Acceptance *	Accepted						
	declared item does not cont Il applicable exemptions.	ain RoHS restricted substanc	es per the definition a	bove except for defined	RoHS exemptions, then s	select the corresponding re	esponse in the RoHS Declaration						
Declaration Si	gnature												
		C 1 1 11 C (1 1)			· • • • • •	T 1: 10 11 1 4	D' i ll i						

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature

Homogeneous Material Composition Declaration for Electronic Products

Subltem 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).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem		Homogeneous	Weight	Unit of		Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
	Name		Material	Weight	Measure								Exempt			-	+	
+1 -	Lead frame	+M -M	Base Material	97.18	mg	+C -(Supplier	Copper	+S	-S	Copper	7440-50-8		88.43	mg			234,91
		_				+C -(C Supplier		+S	-S	Nickel	7440-02-0		4.08	mg			10,841
						+C -(Supplier	Silicon	+S	-S	Silicon	7440-21-3		1.17	mg		;	3,097
						+C -(Supplier	Magnesium	+S	-S	Magnesium	7439-95-4		0.29	mg			773
						+C -(C Supplier	Iron	+S	-S	Iron	7439-89-6		2.53	mg		(6,694
						+C -(C Supplier	Phosphorous	+S	-S	Phosphorous	7723-14-0		0.1	mg		:	258
						+C -(C Supplier	Zirconium	+S	-S	Zirconium	7440-67-7		0.19	mg		ł	515
						+C -(C Supplier	Silver	+S	-S	Silver	7440-22-4		0.39	mg			1,031
+1 -	Lead finish	+M -M	External Plating	4	mg	+C -(Supplier	Tin	+S	-S	Tin	7440-31-5		4	mg			10,626
+1 -	Die Attach	+M -M	Adhesive	0.33	mg	+C -(Supplier	Epoxy Resin	+S	-S	Epoxy Resin	Trade Secre		0.05	mg			133
	•		-			+C -(C Supplier	Silver	+S	-s	Silver	7440-22-4		0.26	mg			691
						+C -(C Supplier	Metal	+S	-s	Metal	Trade Secre		0.02	mg		4	53
+1 -	Die	+M -M	Silicon Die	9.86	mg	+C -(Supplier	Silicon	+S	-s	Silicon	7440-21-3		9.86	mg			26,193
+1 -	Gold wire	+M -M	Interconnect	0.35	mg	+C -(Supplier	Gold	+S	-s	Gold	7440-57-5		0.35	mg		9	930
+1 -	Mold Compound	+M -M	Encapsulation	264.72	mg	+C -(Supplier	Epoxy Resin 1	+S	-s	Epoxy Resin 1	Trade Secre		7.94	mg		1	21,092
			•			+C -(Supplier	Epoxy Resin 2	+S	-s	Epoxy Resin 2	Trade Secre		3.97	mg			10,546
						+C -(Supplier	Phenol Resin 1	+S	-s	Phenol Resin 1	Trade Secre		3.97	mg			10,546
						+C -(C Supplier	Phenol Resin 2	+S	-S	Phenol Resin 2	Trade Secre		3.97	mg			10,546
						+C -(C Supplier	Others	+S	-S	Others	Trade Secre		5.29	mg			14,053
						+C -(C Supplier	SiO2	+S	-S	SiO2	7631-86-9		239.05	mg			635,02
						+C -(C Supplier	Carbon Black	+S	-S	Carbon Black	1333-86-4		0.53	mg			1,408