ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES ®	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	s. All rights reserv	tion with lower	r level p	arts, the	declaratio	n encomp	asses a	all lower	level mate	rials for	which t	e item is an assembly he manufacturer has declaration.
1752-2 1.1		Web Site for Informat	ard					eclaration Class * lass 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat							
Supplier Information															
Company Name *	Unique ID Au	Respo	Response Date *			Response Document ID									
Cypress Semiconductor CorpCYPRESS							09-04								
Contact Name * Title - Contact				Phone - Contact *			- Contac	t *							
Richard Oshiro	QA Engrg Director		408/943-210	rgo@	rgo@cypress.com				Duplicate Contact -> Authorized Representative						
Authorized Representati	Title - Representative	e	Phone - Representative *		Email - Representative *			* St	Supplier Comments or URL for Additional Information						
Glorioso Lutrinia	EH & S Manager Sr.		632 8128161		lge@cypress.com			h	http://app.cypress.com/portal/server.pt?space=Communit						
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version Manufa		ufacturing Site		Neight *	UC		Unit Type
		165-FBGA (13 x 15 mm)		165-FBGA (13 x 15 mm)		2009-09-04			ASE		5	589	mg	1	Each
Alternate Recommendation						Alterna			Item Comments Package QTP No. 050704						
Manufacturing Proces	ss In	formation		<u> </u>											
Terminal Plating / Grid Array Material Terminal			Terminal B	ase Alloy	ating	ting Peak Process Body Tempo			ure Ma	x Time at	Peak Temp	erature	Number	of Reflow Cycles	
11 (5)			CU Alloy	!	3				260 C		20 se		econds 3		
Comments Compliant to RoHS and	Halo	gen Requirements													

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields this form to a file file into this form fields on this form form to prevent changes **RoHS Material Composition Declaration Declaration Type *** Detailed Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, 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 in excess 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 information provided 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 provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply. 1 - Item(s) does not contain RoHS restricted substances per the definition above Supplier Acceptance * Accepted **RoHS Declaration *** Exemptions: 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. **Declaration Signature**

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	Tolerance		PPM
	Name		Material	Weight	Measure		Levei	oubstance outegory			Cubstance	OAO	Exempt	Weigill	Measure	-	+	
+1 -1	Substrate	+M -M	Base Material	161.5	mg	+C -C	Supplier	SiO2	+S	-S	SiO2	60676-86-0		17.79	mg			30,200
						+C -C	Supplier	Acrylic	+S	-s	Acrylic	29690-82-2		16.14	mg			27,400
						+C -C	Supplier	Ероху	+S	-s	Ероху	68541-56-0		12.9	mg		į	21,900
						+C -C	Supplier	Bisphenol	+S	-s	Bisphenol	13676-54-5		24.21	mg			41,100
						+C -C	Supplier	Triazol	+S	-s	Triazol	25722-66-1		28.27	mg			48,000
						+C -C	Supplier	Cu	+S	-s	Cu	7440-50-8		58.78	mg		!	99,800
						+C -C	Supplier	Ni	+S	-s	Ni			2.41	mg			4,100
						+C -C	Supplier	Au	+S	-s	Au	7429-90-5		0.88	mg			1,500
		_				+C -C	Supplier	Br	+S	-s	Br	7726-95-6		0.12	mg		ļ	200
+1 -1	Solder Ball	+M -M	External Plating	80.1	mg	+C -C	Supplier	Sn	+S	-s	Sn	7440-31-5		76.51	mg			129,90
						+C -C	Supplier	Ag	+S	-s	Ag	7440-22-4		3.18	mg		!	5,400
						+C -C	Supplier	Cu	+S	-s	Cu	7440-50-8		0.41	mg		,	700
+1 -1	Die Attach	+M -M	Adhesive	92.94	mg	+C -C	Supplier	Fused Silica	+S	-S	Fused Silica	60676-86-0		50.18	mg		;	85,200
						+C -C	Supplier	Diester	+S	-s	Diester	Proprietary		25.56	mg			43,400
						+C -C	Supplier	Epoxy Resin	+S	-S	Epoxy Resin	Proprietary		5.12	mg			8,700
						+C -C	Supplier	Functionalized Esters	+S	-s	Functionalized Esters	Proprietary		9.31	mg		,	15,800
		_				+C -C	Supplier	Polymeric Resin	+S	-s	Polymeric Resin	Proprietary		2.77	mg			4,700
+1 -1	Die	+M -M	Silicon Die	54.89	mg	+C -C	Supplier	Silicon	+S	-S	Silicon	7440-21-3		54.89	mg		!	93,200
+1 -1	Goldwire	+M -M	Interconnect	5.24	mg	+C -C	Supplier	Gold	+S	-S	Gold	7440-57-5		5.24	mg		,	8,900
+1 -1	Mold Compound	+M -M	Encapsulation	194.31	mg	+C -C	Supplier	Silica Fused	+S	-S	Silica Fused	60676-86-0		172.87	mg			293,50
						+C -C	Supplier	Epoxy Resin A	+S	-S	Epoxy Resin A	Proprietary		10.72	mg			18,200
						+C -C	Supplier	Phenolic Resin	+S	-S	Phenolic Resin	Proprietary		10.72	mg			18,200