AGGGGATION COMMERTING	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lowe	r level	parts, the	declaratio	n encon	npasses	all lower	level mate	erials for	which t	e item is an assembly he manufacturer has declaration.		
1752-2 1.1 IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x							Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat							
Supplier Information																	
Company Name *	Unique ID Authority			Response Date *			Response Document ID										
Cypress Semiconductor CorpCypress						2009-	12-29										
Contact Name * Richard Oshiro	Title - Contact Quality Systems Dire	ector	Phone - Con 408 943 2102		Email - Contact * rgo@cypress.com				Duplicate Contact -> Authorized Representative								
Authorized Representative * Title - Representative			Э	Phone - Representative *			Email - Representative *				Supplier Comments or URL for Additional Information						
Glorioso Lutrinia EH & S Manager				632 812 8161			lge@cypress.com				http://app.cypress.com/portal/server.pt?space=Community						
Requester Item Number		Mfr Item Number		Mfr Item Name	Effecti	ve Date	Version Manuf		cturing Si	ite	Weight *	UC	M	Unit Type			
		BGA 165		BGA 165	2009-	12-29		AIT Indonesi		esia 587		mg	l	Each			
Alternate Recommendation							Alterna			e Item Comments Package QTP No. 093701							
Manufacturing Proces	ss In	formation															
Terminal Plating / Grid Array Material Ter			Terminal B	ase Alloy	J-STD-020 MSL Rating		Peak Process Body Te		Temper	ature Ma	e Max Time at Peak Temp		perature Number of		of Reflow Cycles		
,			CU Alloy	•	3				<b>260</b> C		<b>20</b> se		econds	3			
Compliant to RoHS and	Halo	gen Requirements,	15 x 17 mr	n, BW165													

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	Woight	Unit of	Tolerand	e PPM
	Name			Material	weight	Measure			Levei	Substance Category			Substance	CAS	Exempt	weight	Measure	- +	PPIVI
+I	-I Substrate	+M	-M	Base Material	329.25	mg	+C	-c	Supplier	Au, metal & alloy	+S	-S	Au, metal & alloy	7440-57-5		0.91	mg		1,551
							+C	-C	Supplier	Ni, metal & alloy	+S	-S	Ni, metal & alloy	65997-17-3		4.2	mg		7,160
							+C	-C	Supplier	Cu, metal & alloy	+S	Ş	Cu, metal & alloy	7440-50-8		192.3	mg		327,81
							+C	-C	Supplier	Solder Mask	+S	Ş	Solder Mask	Trade Secre		27.46	mg		46,812
							+C	-C	Supplier	Epoxy Resin	+S	Ş	Epoxy Resin	Trade Secre		1.53	mg		2,608
							+C	-C	Supplier	BT Resin	+S	Ş	BT Resin	Trade Secre		65.64	mg		111,89
							+C	-C	Supplier	Glass Fiber	+S	Ş	Glass Fiber	Trade Secre		37.21	mg		63,433
+I	-I Solder Ball	+M	-M	External Plating	76.6	mg	+C	-C	Supplier	Tin	+S	Ş	Tin	7440-31-5		73.15	mg		124,70
							+C	-C	Supplier	Silver	+S	Ş	Silver	7440-22-4		3.06	mg		5,223
	99.	_					+C	-C	Supplier	Copper	+S	-S	Copper	7440-50-8		0.39	mg		653
+I	-I Die Attach	+M	-M	Adhesive	29.64	mg	+C	-C	Supplier	Filler	+S	Ş	Filler	Trade Secre		14.22	mg		24,249
							+C	-C	Supplier	BMI Hybrid Resin	+S	-S	BMI Hybrid Resin	Trade Secre		14.82	mg		25,260
							+C	-C	Supplier	Hardener	+S	-S	Hardener	Trade Secre		0.3	mg		505
	99.	_					+C	-C	Supplier	Others	+S	-S	Others	Trade Secre		0.3	mg		505
+I	-I Die	+M	-M	Circuit	80.4	mg	+C	-c	Supplier	Silicon	+S	-S	Silicon	7440-21-3		80.4	mg		137,06
+I	-I Wire	+M	-M	Interconnect	5.66	mg	+C	-c	Supplier	Gold	+S	-S	Gold	7440-57-5		5.66	mg		9,648
+I	-I Mold Compound	+M	-M	Encapsulation	65.07	mg	+C	-c	Supplier	Fused Silica	+S	-S	Fused Silica	60676-86-0		39.04	mg		66,546
							+C	-C	Supplier	Solid Epoxy Resin	+S	-S	Solid Epoxy Resin	Trade Secre		6.51	mg		11,091
							+C	-c	Supplier	Phenolic Resin	+S	-S	Phenolic Resin	Trade Secre		6.51	mg		11,091
							+C	-C	Supplier	Carbon Black	+S	-S	Carbon Black	1333-86-4		0.65	mg		1,109
							+C	-c	Supplier	Crystalline Silica	+S	-S	Crystalline Silica	14808-60-7		3.25	mg		5,545
							+C	-c	Supplier	Metal Hydro Oxide	+S	-s	Metal Hydro Oxide	Trade Secre		9.11	mg		15,527