

 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. Adobe Reader version 7.0.5 is required to complete this 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 *		Company Unique ID		Unique ID Authority		Response Date *		Response Document ID	
Cypress Semiconductor Corp		CYPRESS				2009-09-04			
Contact Name *		Title - Contact		Phone - Contact *		Email - Contact *		<input type="button" value="Duplicate Contact -> Authorized Representative"/>	
Richard Oshiro		QA Engrg Director		408/943-2102		rgo@cypress.com			
Authorized Representative *		Title - Representative		Phone - Representative *		Email - Representative *		Supplier Comments or URL for Additional Information	
Glorioso Lutrinia		EH & S Manager Sr.		632 8128161		lge@cypress.com		http://app.cypress.com/portal/server.pt?space=Community	
	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
		209 – FBGA (14 x 22 x 1.76 mm)	209 – FBGA (14 x 22 x 1.76 mm)	2009-09-04		ASE	1,114	mg	Each
	Alternate Recommendation				Alternate Item Comments		Package QTP No.044004 / 043301		
Manufacturing Process Information									
Terminal Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature	
Tin/Silver/Copper (Sn/Ag/Cu)		CU Alloy		3		260 C		20 seconds	
Number of Reflow Cycles		3							
Comments									
Compliant to RoHS and Halogen Requirements									

RoHS Material Composition Declaration

Declaration Type *Detailed

RoHS Directive 2002/95/EC

RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

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.

RoHS Declaration *1 - Item(s) does not contain RoHS restricted substances per the definition above

Supplier Acceptance *Accepted

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

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).

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 Name			Homogeneous Material	Weight	Unit of Measure			Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM	
																			-	+		
+I	-I	Substrate	+M	-M	Base Material	379.09	mg	+C	-C	Supplier	SiO2	+S	-S	SiO2	60676-86-0		41.7	mg			37,429	
									+C	-C	Supplier	Acrylic	+S	-S	Acrylic	Proprietary		37.91	mg		34,027	
									+C	-C	Supplier	Epoxy	+S	-S	Epoxy	68541-56-0		30.33	mg		27,224	
									+C	-C	Supplier	Bisphenol	+S	-S	Bisphenol	13676-54-5		56.86	mg		51,037	
									+C	-C	Supplier	Triazol	+S	-S	Triazol	25722-66-1		66.34	mg		59,546	
									+C	-C	Supplier	Cu	+S	-S	Cu	7440-50-8		137.97	mg		123,85	
									+C	-C	Supplier	Ni	+S	-S	Ni			5.69	mg		5,107	
									+C	-C	Supplier	Au	+S	-S	Au	7429-90-5		2.08	mg		1,867	
									+C	-C	Supplier	Br	+S	-S	Br	Proprietary		0.21	mg		187	
+I	-I	Solder Ball	+M	-M	External Plating	175.25	mg	+C	-C	Supplier	Sn	+S	-S	Sn	7440-31-5		167.36	mg			150,22	
									+C	-C	Supplier	Ag	+S	-S	Ag	7440-22-4		7.01	mg			6,292
									+C	-C	Supplier	Cu	+S	-S	Cu	7440-50-8		0.88	mg			790
+I	-I	Die Attach	+M	-M	Adhesive	76.07	mg	+C	-C	Supplier	Fused Silica	+S	-S	Fused Silica	60676-86-0		41.08	mg			36,873	
									+C	-C	Supplier	Diester	+S	-S	Diester	Proprietary		20.92	mg			18,777
									+C	-C	Supplier	Epoxy Resin	+S	-S	Epoxy Resin	Proprietary		4.18	mg			3,752
									+C	-C	Supplier	Functionalized Esters	+S	-S	Functionalized Esters	Proprietary		7.61	mg			6,831
									+C	-C	Supplier	Polymeric Resin	+S	-S	Polymeric Resin	Proprietary		2.28	mg			2,046
+I	-I	Die	+M	-M	Silicon Die	69.92	mg	+C	-C	Supplier	Silicon	+S	-S	Silicon	7440-21-3		69.92	mg			62,756	
+I	-I	Goldwire	+M	-M	Interconnect	8.43	mg	+C	-C	Supplier	Gold	+S	-S	Gold	7440-57-5		8.43	mg			7,564	
									+C	-C	Supplier	Ion Impurities	+S	-S	Ion Impurities	Proprietary		0	mg			1
+I	-I	Mold Compound	+M	-M	Encapsulation	405.32	mg	+C	-C	Supplier	Silica Fused	+S	-S	Silica Fused	60676-86-0		360.74	mg			323,79	
									+C	-C	Supplier	Epoxy Resin A	+S	-S	Epoxy Resin A	Proprietary		22.29	mg			20,010
									+C	-C	Supplier	Phenolic Resin	+S	-S	Phenolic Resin	Proprietary		22.29	mg			20,010