ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoo nternational and Pan-Ameri	kburn, Illinois	s. All rights reserv	tion with lowe	r level p	parts, the	declaration	n encom	asses	all lower	level mate	rials 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 * Company Unique ID				Unique ID Au	Resp	Response Date *			Response Document ID								
Cypress Semiconductor CorpCYPRESS							05-11										
Contact Name * Title - Contact				Phone - Contact *			- Contac	t *		_		_			. 1		
Richard Oshiro	QA Engrg Director		408/943-210	rgo@	rgo@cypress.com				Duplicate Contact -> Authorized Representative								
Authorized Representati	Title - Representative				Email	Email - Representative *			Supplier Comments or URL for Additional Information								
Glorioso Lutrinia EH & S Manage			r. 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 Manufa		facturing Site		Weight *	UC		Unit Type		
		TSOP I 32 (8x13.4 mm)		TSOP I 32 (8x13.4 mm)		2009-	2009-05-11		CML Philipp		lippines 242		mg	1	Each		
Alternate Recommendation					Alternate Item												
Manufacturing Proces	ss In	formation															
Terminal Plating / Grid Array Material Terminal E				ase Alloy	ating	ting Peak Process Body Tempe			ure Ma	x Time at	Peak Temp	erature	Number	of Reflow Cycles			
Nickel/Palladium/Gold (Ni/Pd/Au) CU			CU Alloy	у 3					260 C		20 se		econds 3		,		
Comments Compliant to RoHS requ	irem	ents															

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 Measure	Tolerance		- PPM
	Name		Material	weight	Measure		Levei	Substance Category			Substance	UA3				-	+	
+1 -1	Lead frame	+M -M	Base Material	81.31	mg	+C -C	Supplier	Copper	+S	-S	Copper	7440-50-8		78.22	mg		;	322,68
						+C -C	Supplier		+S	-S	Nickel	7440-02-0		2.44	mg			10,063
						+C -C	Supplier	Silicon	+S	-s	Silicon	7440-21-3		0.53	mg		1	2,180
						+C -C	Supplier	Magnesium	+S	-s	Magnesium	7439-95-4		0.12	mg		!	503
+1 -1	Leadfinish	+M -M	External Plating	1.69	mg	+C -C	Supplier		+S	-s	Nickel	7440-02-0		1.63	mg		f	6,738
					•	+C -C	Supplier	Palladium	+S	-s	Palladium	7440-05-3		0.03	mg			121
						+C -C	Supplier	Gold	+S	-s	Gold	7440-57-5		0.03	mg		•	122
+1 -1	Die Attach	+M -M	Adhesive	0.17	mg	+C -C	Supplier	Proprietary bismalein	+S	-s	Proprietary bismaleimid	Trade Secre		0.02	mg		•	66
				•		+C -C	Supplier	Silver	+S	-s	Silver	7440-22-4		0.14	mg		;	584
						+C -C	Supplier	Proprietary polymer	+S	-S	Proprietary polymer	Trade Secre		0.01	mg		;	37
						+C -C	Supplier	Methacrylate	+S	-s	Methacrylate	Trade Secre		0	mg		•	15
						+C -C	Supplier	Acrylate ester	+S	-S	Acrylate ester	Trade Secre		0	mg			15
						+C -C	Supplier	Organic peroxide	+S	-s	Organic peroxide	Trade Secre		0	mg			15
+1 -1	Die	+M -M	Silicon Die	2.48	mg	+C -C	Supplier	Silicon	+S	-S	Silicon	7440-21-3		2.48	mg		-	10,220
+1 -1	Goldwire	+M -M	Interconnect	2.38	mg	+C -C	Supplier	Gold	+S	-s	Gold	7440-57-5		2.38	mg		ç	9,832
+1 -1	Mold Compound	+M -M	Encapsulation	154.36	mg	+C -C	Supplier	Phenol Resin	+S	-s	Phenol Resin	Trade Secre		7.72	mg			31,840
	_			•	•	+C -C	Supplier	Epoxy Resin	+S	-S	Epoxy Resin	Trade Secre		9.26	mg		;	38,209
						+C -C	Supplier	Silica	+S	-S	Silica	60676-86-0		137.38	mg			566,75