

Cypress Semiconductor Qualification Report

**QTP# 99053 VERSION 1.0
November, 1999**

**68 LD PLCC
GEC Philippines**

CYPRESS TECHNICAL CONTACT FOR QUALIFICATION DATA:

Ed Russell
Reliability Director
(408) 432-7069

PLASTIC PACKAGE/ASSEMBLY/MARK DESCRIPTION			
Mold Compound Name/Manufacturer		Sumitomo EME6600 CS	
Package Outline, Type, or Name:		68LD PLCC (with die size of 251.9 X 274.8 mils or less)	
Lead Frame material:	Copper		
Lead Finish, composition:	85% / 15% SN / PB		
Die Attach Area Plating:	Silver plating	Die Attach Pad Size:	300 x 300
Die Attach Method:	Silver Epoxy	Die Attach Material:	Ablestik 841 LMISRA
Wire Bond Method:	Thermosonic	Wire Material/Size:	Au 1.3 mil Wire
Assembly Line Process Flow:		49-49999	
Name/Location of All Assembly Facilities by Pkg.:		GEC PHILIPPINES	

Note: Please contact a Cypress Representative for other packages availability.

RELIABILITY TESTS PERFORMED

Stress/Test	Test Condition (Temp/Bias)	Result P/F
Acoustic Microscopy	Cypress Spec. 25-00104	P
Resistance to Solvent	Cypress Spec. 25-00016	P
Ball Shear	Cypress Spec. 25-00018	p
Bond Pull	Cypress Spec. 25-00002	p
Physical Dimension	Cypress Spec. 25-00031	p
Die Shear	Cypress Spec. 25-00004	p
External Visual	Cypress Spec. 12-00292/12-00103	p
High Accelerated Saturation Test	140°C/5.5V Precondition: JESD22 Moisture Sensitivity Level 3 192 Hrs., 30°C/60%RH	P
High Temperature Storage	165C, no bias	P
Internal Visual	Cypress Spec: 25-00017	P
Solderability	Cypress Spec: 25-00018	P
Temperature Cycle	MIL-STD-883C, Method 1010, Condition C, -65°C to 150°C MSL 3 Precondition: JESD22 192 Hrs., 30C/60%	P
Thermal Shock	Cypress Spec: 25-00014 Condition B -55C to 150C	P
X - Ray	Cypress Spec: 12-000149	P

RELIABILITY TEST DATA

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QUALIFY 68LD PLCC @ GEC UPTO DIE SIZE 251.9 X 274.8

DEVICE	ASSY-LOC	FABLOT#	ASSYLOT#	DURATION	S/S	REJ	FAIL MODE
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STRESS: HI-ACCEL SATURATION TEST (140C/85%RH/5.5V), PRECOND. 192 HRS 30C/60%RH

CY7C4285-JC	GW	4749281	619902522	128	48	0	
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STRESS: HIGH TEMP. STORAGE

CY7C4285-JC	GW	4749281	619902522	336	48	0	
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STRESS: TC COND. C, -65 TO 150C, PRECOND. 192 HRS 30C/60%RH (MSL 3)

CY7C4285-JC	GW	4751418	619902521	300	48	0	
CY7C4285-JC	GW	4751418	619902521	1000	48	0	
CY7C4285-JC	GW	4751418	619902521-A	300	48	0	
CY7C4285-JC	GW	4749281	619902522	300	48	0	
CY7C4285-JC	GW	4749281	619902522	1000	48	0	

STRESS: THERMAL SHOCK, CONDITION B

CY7C4285-JC	GW	4749281	619902522	100	48	0	
CY7C4285-JC	GW	4749281	619902522	200	48	0	