

Cypress Semiconductor Qualification Report

**QTP# 97213, Version 1.0
February, 1998**

**32 Ld STSOP Package
OSE, Taiwan Assembly**

PLASTIC PACKAGE/ASSEMBLY DESCRIPTION			
Package Outline, Type, or Name:	32 Ld STSOP		
Mold Compound Name/Manufacturer:	Hitachi CEL 9200U		
Lead Frame material:	Copper		
Lead Finish, composition:	Solder Plated, 85%Sn, 15%Pb		
Die Attach Area Plating:	Silver		
Die Attach Method:	Epoxy	Die Attach Material:	Ablestik 84-1LMISR4
Wire Bond Method:	Thermosonic	Wire Material/Size:	Gold / 1.0 mil
JESD22-A112 Moisture Sensitivity Level	Level 3		
Assembly Line ID and Process ID:	OSE, Taiwan (TAIWAN-T)		

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

RELIABILITY TESTS PERFORMED

Stress/Test	Test Condition (Temp/Bias)	Result P/F
Temperature Cycle	MIL-STD-883C, Method 1010, Condition C, -65°C to 150°C Precondition: JESD22 Moisture Sensitivity Level 3 192 Hrs., 30°C/60%RH	P
High Accelerated Saturation Test	140°C/5.5V Precondition: JESD22 Moisture Sensitivity Level 3 192 Hrs., 30°C/60%RH	P
Resistance to Solvent	Cypress Spec 25-00016	P
Physical Dimension	Cypress Spec 25-00031	P
High Temperature Storage	165°C, no bias	P
Internal Visual	Cypress Spec 25-00017	P
External Visual	Cypress Spec 12-00102/12-00103	P
Die Shear	Cypress Spec 24-00004	P
Ball Shear	Cypress Spec 24-00018	P
Bond Pull	Cypress Spec 24-00002	P
Thermal Shock	Cypress Spec 25-00014	P
X-Ray	Cypress Spec 12-00149	P
C-Sam	Cypress Spec 25-00104	P

RELIABILITY TEST DATA

QTP#: 97213

DEVICE	ASSY-LOC	FABLOT#	ASSYLOT#	DURATION	S/S	REJ	FAIL MODE
STRESS: HI-ACCEL SATURATION TEST (140C, 5.5V), PRECOND. 192 HRS 30C/60%RH							
CY7C1512-ZAC	TAIWN-T	3648865	619702894	128	45	0	
STRESS: HIGH TEMPERATURE STORAGE (165C, NO BIAS)							
CY7C1512-ZAC	TAIWN-T	3648865	619702894	336	48	0	
CY7C1512-ZAC	TAIWN-T	3648865	619702894	1000	48	0	
STRESS: TC COND. C, -65 TO 150C, PRECOND. 192 HRS 30C/60%RH							
CY7C1512-ZAC	TAIWN-T	3648830	619702836	300	48	0	
CY7C1512-ZAC	TAIWN-T	3648830	619702836	1000	48	0	
CY7C1512-ZAC	TAIWN-T	3648831	619702837	300	48	0	
CY7C1512-ZAC	TAIWN-T	3648831	619702837	1000	48	0	
CY7C1512-ZAC	TAIWN-T	3648865	619702894	300	48	0	
CY7C1512-ZAC	TAIWN-T	3648865	619702894	1000	48	0	
STRESS: THERMAL SHOCK, CONDITION B							
CY7C1512-ZAC	TAIWN-T	3648865	619702894	100	48	0	
CY7C1512-ZAC	TAIWN-T	3648865	619702894	200	48	0	