

Cypress Semiconductor Qualification Report

**QTP# 97491, Version 1.0
March, 1998**

**44 Ld TSOP Type II
OSE, Taiwan Assembly**

PLASTIC PACKAGE/ASSEMBLY DESCRIPTION			
Package Outline, Type, or Name:	44 Ld TSOP Type II		
Mold Compound Name/Manufacturer:	Hitachi CEL 9200		
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 8361H
Wire Bond Method:	Thermosonic	Wire Material/Size:	Gold / 1.0 mil
JESD22-A112 Moisture Sensitivity Level	Level 3		
Assembly Line ID and Process ID:	ASE, Taiwan (TAIWAN-G)		

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

RELIABILITY TESTS PERFORMED

Stress/Test	Test Condition (Temp/Bias)	Result P/F
Temperature Cycle	JEDEC22, Condition B, -40°C to 125°C Precondition: JESD22 Moisture Sensitivity Level 3 192 Hrs., 30°C/60%RH	P
High Accelerated Saturation Test	140°C/3.63 Precondition: JESD22 Moisture Sensitivity Level 3 192 Hrs., 30°C/60%RH	P
Solderability, Steam Aged	Cypress Spec. 25-00018	P
Resistance to solvents	Cypress Spec. 25-00016	P
Physical Dimentions	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 12-000149	P
Acoustic Microscopy Test (C-SAM)	Cypress Spec 25-00104	P

RELIABILITY TEST DATA

QTP#: 97354

DEVICE	ASSY-LOC	FABLOT#	ASSYLOT#	DURATION	S/S	REJ	FAIL MODE
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STRESS: HI-ACCEL SATURATION TEST (140C, 5.5V), PRECOND. 192 HRS 30C/60%RH							
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	128	54	0	

STRESS: HIGH TEMPERATURE STORAGE (165C, NO BIAS)							
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	336	50	0	

STRESS: TC COND. C, -65 TO 150C, PRECOND. 192 HRS 30C/60%RH							
CY7C1021-ZSC	TAIWN-T	4722637	619708843L	300	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708843L	1000	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708844L	300	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708844L	1000	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	300	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	1000	50	0	

STRESS: THERMAL SHOCK, CONDITION B							
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	100	50	0	
CY7C1021-ZSC	TAIWN-T	4722637	619708845L	200	50	0	
