

# Cypress Semiconductor Product Qualification Report

QTP# I000002 VERSION 1.0  
January, 2003

**0.35um Technology, CSM Fab 2**

**CY25811**

**CY25812**

**CY25814**

**3.3V, Spread Spectrum Clock Generator**

## **CYPRESS TECHNICAL CONTACT FOR QUALIFICATION DATA:**

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### PRODUCT QUALIFICATION HISTORY

<b>Qual Report</b>	<b>Description of Qualification Purpose</b>	<b>Date Comp</b>
I000002	3.3V, Spread Spectrum Clock Generator, CY25811/CY25812/CY25814 are family of the F35C base wafer product, 0.35um Technology, Chartered Semiconductor Singapore, Fab 2	2000

### DIE QUALIFICATION TEST RESULTS

#### F35C base die platform (0.35 uM, 3 layers metal, CMOS, CSM-Singapore)

Test	Military or Industry Standard	Conditions	Test Points	Test Results	Comments
Life Test	MIL-STD-883 Method 1005	150°C/3.3V	500 1000	0/116 0/116	
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Life Test	MIL-STD-883 Method 1005	150°C/3.3V	500	0/116	
ESD	MIL-STD-883 Method 3015	HBM	2000V 3000V 4000V 5000V	0/3 0/3 0/3 0/3	
Latch-up	JESD78		200 Ma	0/5	
ESD	MIL-STD-883 Method 3015	HBM	2000V 3000V 4000V	0/3 0/3 0/2	
Latch-up	JESD78		200 mA	0/5	
ESD	MIL-STD-883 Method 3015	HBM	2000V 3000V 4000V	0/3 0/3 0/2	
Latch-up	JESD78		200 mA	0/5	

## PACKAGE QUALIFICATION TEST RESULTS

### SOIC ,0.150 wide

Test	Military or Industry Standard	Conditions	Test Points	Test Results	Comments
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/76	Preconditioned Units, CWT, lot C1179
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/76	Preconditioned Units, CWT, lot C1179
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/76	Preconditioned Units, SPEL, lot T2959
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/76	Preconditioned Units, SPEL, lot T2959
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/76	Preconditioned Units, CWT, lot B6399
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/76	Preconditioned Units, CWT, lot B6399
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/76	Preconditioned Units, SIG-K, lot F5216
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/76	Preconditioned Units, SIG-K, lot F5216
Physical Dimension	JEDEC Spec.	Applicable drawing	N/A	0/12	Performed by CWT
Resistance to Solvent	MIL-STD-883 Method 2015		N/A	0/12	Performed by CWT
Solderability	MIL-STD-883 Method 2003	260 Deg, 5 sec 95% Min Covrg	N/A	0/5	Performed by CWT
Coplanarity	JEDEC Spec.	Max = 4 Mil	N/A	0/20	Performed by CWT
Physical Dimension	JEDEC Spec.	Applicable drawing	N/A	0/12	Performed by SPEL
Resistance to Solvent	MIL-STD-883 Method 2015		N/A	0/12	Performed by SPEL
Solderability	MIL-STD-883 Method 2003	260 Deg, 5 sec 95% Min Covrg	N/A	0/5	Performed by SPEL
Coplanarity	JEDEC Spec.	Max = 4 Mil	N/A	0/20	Performed by SPEL
Physical Dimension	JEDEC Spec.	Applicable drawing	N/A	0/12	Performed by SIG-K
Resistance to Solvent	MIL-STD-883 Method 2015		N/A	0/12	Performed by SIG-K
Solderability	MIL-STD-883 Method 2003	260 Deg, 5 sec 95% Min Covrg	N/A	0/5	Performed by SIG-K
Coplanarity	JEDEC Spec.	Max = 4 Mil	N/A	0/20	Performed by SIG-K

### TSSOP ,0.170 wide

Test	Military or Industry Standard	Conditions	Test Points	Test Results	Comments
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/45	Preconditioned Units, SIG-K LOT F4461
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/45	Preconditioned Units, SIG-K, LOT F4461
Temperature Cycle	MIL-STD-883 Method 1010	500 cycles, -65/+ 150°C	500	0/76	Preconditioned Units, OSE, LOT C1141
Pressure Pot	JEDEC Std. 22 Test Method 102	168 Hours, 100% RH, 121°C, 2 atm	168	0/76	Preconditioned Units, OSE, LOT C1141`
Physical Dimension	JEDEC Spec.	Applicable drawing	N/A	0/12	Performed by SIG-K
Resistance to Solvent	MIL-STD-883 Method 2015		N/A	0/12	Performed by SIG-K
Solderability	MIL-STD-883 Method 2003	260 Deg, 5 sec 95% Min Covrg	N/A	0/5	Performed by OSE
Coplanarity	JEDEC Spec.	Max = 4 Mil	N/A	0/20	Performed by OSE