



SPEC NO.: CU-212SMD

Specification

TO:STE508

Model Name: Crystal Oscillator

PART NO: SOC5032-10.000M-50-3.3V-A

CUSTOMER PART NO.:

APPROVAL SHEET

	Yes			
Approved?	No.			
Customer's comments are welcomed here.				
Pls return this copy as a certificate of your approval by email.				
A conserved Dec				
Approved By Date:				

STRONG ELECTRONICS&TECHNOLOGY LIMITED

Tel:86-755-84528985 Fax: 86-755-84528986 Email:info@strongelectronics.net www.strongelectronics.net



History Record

Date	Part No.	SPEC No.	Description.	Remarks.
RoHS Compliant Lead free Lead-free soldering	ISO9001:2000 ISO14001:2004	Approved by	Check by	Design by
		May-15-2009	May-10-2009	Jan-16-2009
Reversions	Total Page	— Xu gang dong	Lia jun	Wang hon
CU-02SMD				



SPECIFICATION

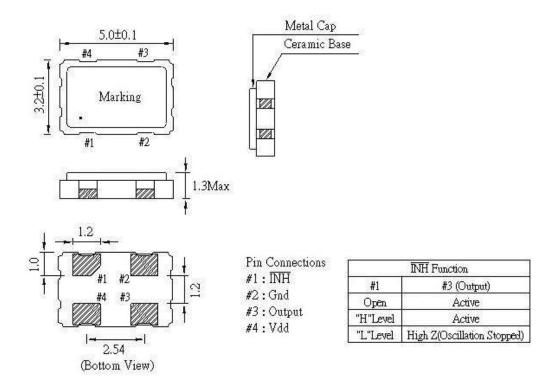
1. RANGE:

This specification shall cover the characteristics of crystal oscillator with Strong's P/N: SOC5032-10.000M-50-3.3V-F

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
Package	S5032
Output Signal Waveform	CMOS
Frequency Range	10.000MHz
Current Consumption	30mA Max
Frequency Stability	±50ppm Max
Load	15pF
Output Symmetry	45~55 (at 50%VDD)
Rise Time/Fall Time	10nS Max.
Temperature Range	Operating: -20∼+70°C
	Storage: -45°C to 85°C
Supply Voltage	3.3V+-5%
Output Level	1V Max
Aging	±3ppm/year Max

3. DIMENSION





4. MECHANICAL SPECIFICATION

1) Terminal Strength

Lead pulling test

Conditions: Load 907.2 gram

Direction To the downward

Duration of applied force 5 seconds

Results: There should be no distortion in appearance.

* Lead bending test

Conditions: Load 453.6 gram

Bending angle 90° to normal position Rate of bending 3 seconds in each cycle

Number of bending 3

Results: There should be no distortion in appearance.

2) Lead solder ability test

Conditions: Dipping in solder($\pm 260^{\circ}\text{C} \pm 5^{\circ}\text{C}$) for 3 seconds Results: More than 95% of surface being tested should be

coated uniformly with solder.

3) Vibration test

Conditions: Frequency 10 - 55Hz

Amplitude 0.762mm Sweep 1.0 minute Duration 2 hours

Results: Frequency and wave form of tested products must

Remain within specifications.

4) Drop test

Conditions: Method of drop Natural drop

Dropping floor Hard wood board

Height 30cm Number of drops 3 times

Results: Frequency and wave form of tested products must

remain within specifications.



5. ENVIRONMENTAL SPECIFICATION

1) Temperature test

* Temperature cycling test

Conditions: Steps of cycle 1) At -55°C,30 minutes

2) At $+25^{\circ}$ C, 10 - 15 minutes 3) At $+105^{\circ}$ C, 30 minutes 4) At $+25^{\circ}$ C, 10 - 15 minutes

Number of cycles 3 times

Results: Frequency and wave form of tested products must

remain within specifications.

* Low Temperature test

Conditions: Temperature $-45^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Length of test 96 hours

Results: There should be no stain on surface of products.

Frequency and wave form of tested products must

remain within specifications.

2) Aging test

Conditions: Temperature $+105^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Length of test 96 hours

Results: Deviation of frequency must be less than ± 3 ppm

3) Salt spray test

Conditions: Temperature $+35^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Length of test 48 hours

NaCI % 5%

Results: There should be no stain on surface of products.

4) Humidity test

Conditions: Temperature $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative humidity 90 - 95% Length of test 96 hours

Results: a. Insulation resistance must be 500 M Ω /100 Vac. minimum

b. Resistance and wave form must remain within specifications.

© 2009 STRONG. All Rights Reserved.