

Specification

TO:STE

Model Name: Crystal Oscillator

PART NO: SOC5032-2.048M-30-3.3V-E

CUSTOMER PART NO.:

APPROVAL SHEET

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

STRONG ELECTRONICS&TECHNOLOGY LIMITED

Tel:86-755-84528985 Fax: 86-755-84528986

Email:info@strongfirst.com.cn

www.strongfirst.com.cn

SPECIFICATION

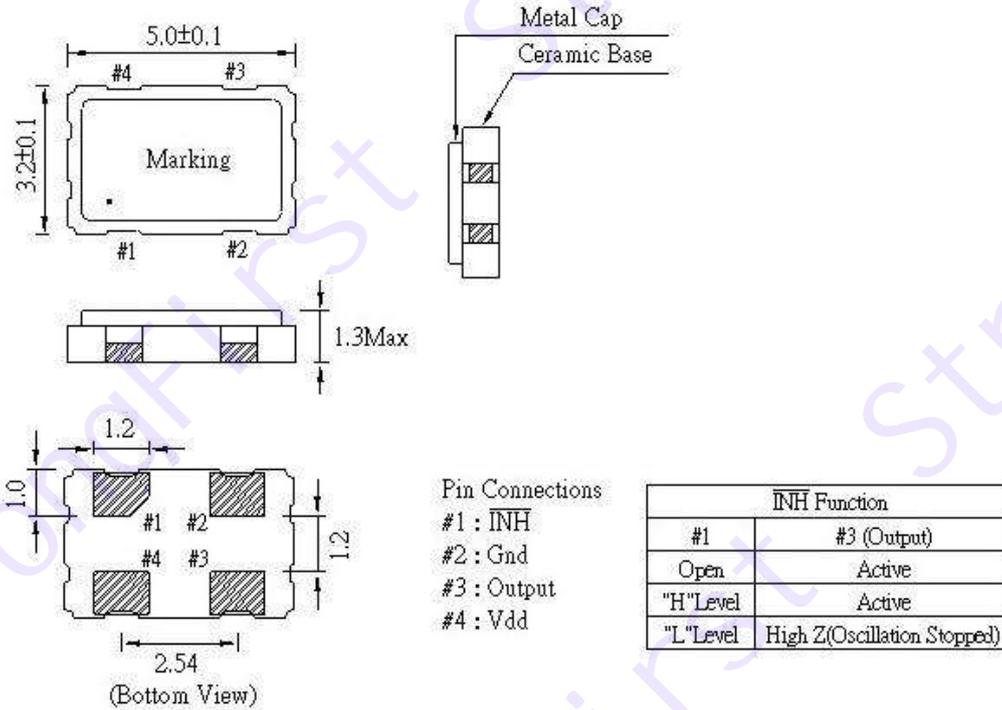
1. RANGE:

This specification shall cover the characteristics of crystal oscillator with Strong's P/N: SOC5032-2.048M-30-3.3V-E

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
Package	SMD5.0*3.2MM 4 pads
Output Signal Waveform	CMOS
Frequency Range	2.048MHz
Current Consumption	30mA Max
Frequency Stability	± 30ppm Max
Load	15pF
Output Symmetry	45~55 (at 50%VDD)
Rise Time/Fall Time	10nS Max.
Temperature Range	Operating: -40~+85°C Storage: -55°C to 125°C
Supply Voltage	3.3V+-5%
Output Level	1V Max
Aging	± 3ppm/year Max
Tri-state	Compatible

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 ($+260^\circ\text{C} \pm 5^\circ\text{C}$) 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°C,10 - 15 minutes 3) At +105°C,30 minutes 4) At +25°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°C ± 2°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°C ± 5°C
	Length of test	96 hours

Results: Deviation of frequency must be less than $\pm 3\text{ppm}$

3) Salt spray test

Conditions: Temperature $+35^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Length of test 48 hours
NaCl % 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 $500\text{ M}\Omega/100\text{ Vac}$. minimum
b. Resistance and wave form must remain within specifications.

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