

SPEC NO.: CU-002SDIP

Specification

TO:
Model Name: Crystal Oscillator
PART NO: SOC7050-2.048M-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: _____

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SPECIFICATION

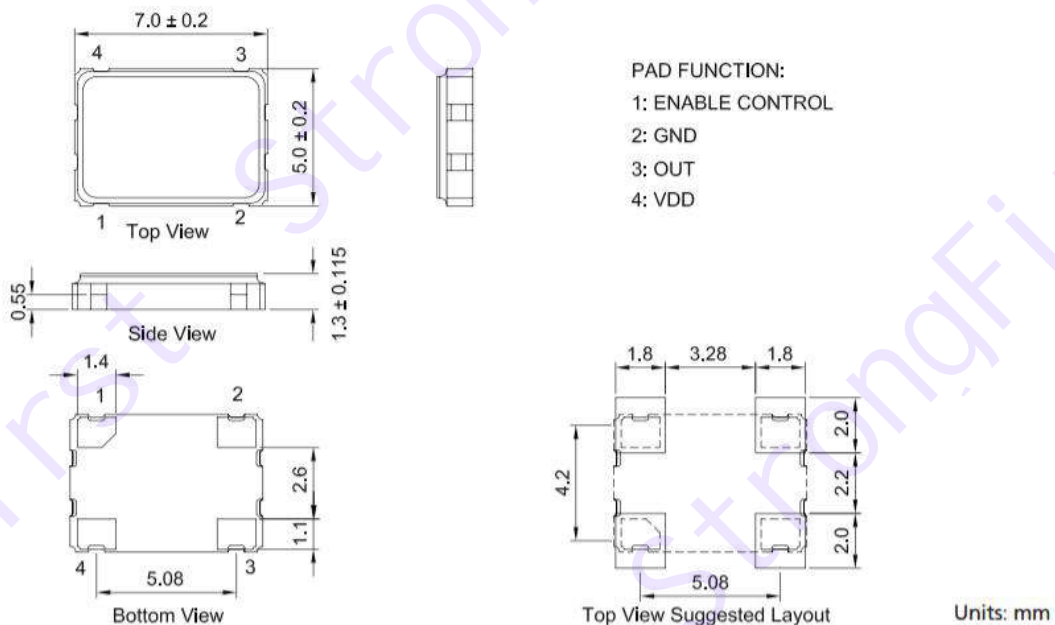
1. Scope:

This specification shall cover the characteristics of crystal oscillator with Strong's P/N: SOC7050-2.048M-30-3.3V-E

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
Package	7.0mm x 5.0mm x 1.8mm
Output Signal Waveform	CMOS/TTL
Output Load	15pF
Frequency Range	2.048MHz
Current Consumption	35mA Max
Frequency Stability	± 50ppm Max
Temperature Range	Operating: -40~+85°C Storage: -55°C to 105°C
Supply Voltage	3.3V+/-5%
Output Level	1V Max
Stand-by Function	Tri-state Compatible
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(+230°C ± 5°C)for 5 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 +85°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	-40°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	+85°C ± 20°C
	Length of test	96 hours

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

3) Salt spray test

Conditions:	Temperature	+35°C ± 2°C
	Length of test	48 hours
	NaCl %	5%

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

4) Humidity test

Conditions:	Temperature	+40°C ± 2°C
	Relative humidity	90 - 95%
	Length of test	96 hours

Results: a. Insulation resistance must be 500 MΩ /100 Vac. minimum
b. Resistance and wave form must remain within specifications.

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