

# Crystal OSCILLATOR

7.0 X5.0MM Surface Mount Package



Approved by:

Checked by:

Issued by:

## SPECIFICATION

P/N: 6N0368640C02MBL

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7.0 X5.0MM Surface Mount Package



## FEATURE

- Broad frequency ranges from 1.00MHz to 150MHz
- Compact and thin ceramic package with metalized surface mounting and automatically loaded
- Reflow solder is possible
- Lower noise and current with reduced power consumption
- Built-in C-MOS IC with tri-state function
- 5V and 3.3V supply model available

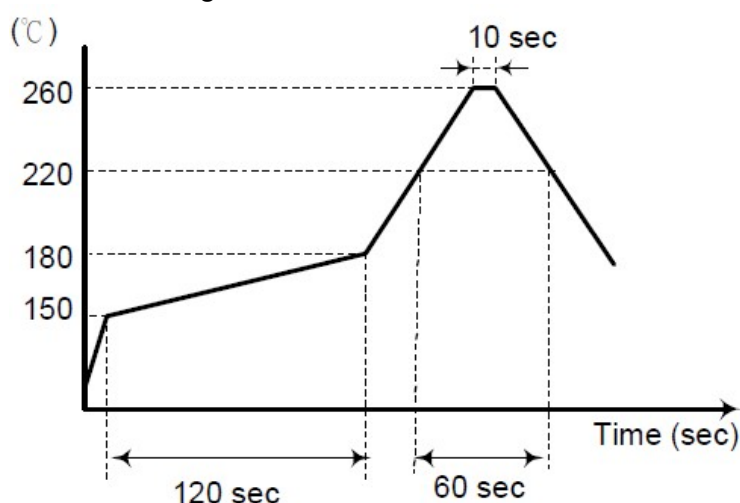
## ELECTRICAL SPECIFICATIONS

| Parameters            |                  | Condition | 6N            |           |
|-----------------------|------------------|-----------|---------------|-----------|
| Fan Out Type          |                  |           | HCMOS         |           |
| Supply Voltage        |                  |           | 5.0V±10%      |           |
| Frequency             |                  |           | 3.6864MHz     |           |
| Operating Temperature |                  |           | -40°C-85°C    |           |
| Input Current         | Frequency Range  |           | 10mA max      |           |
| Frequency Stability   | All Conditions   |           | ±50ppm        |           |
| Symmetry              | AT 1/2 Vdd       |           | 45/55%        |           |
| Output Voltage        | Vol(max)         |           | 10%Vdd        |           |
|                       | VoH(min)         |           | 90%Vdd        |           |
| Rise/Fall Time        | AT 0.1Vdd~0.9Vdd |           | 10ns Max      |           |
| Driving Ability       | CMOS load max    |           | 50pF          |           |
| Start-up Time         | Load RANGE       |           | 10ms max      |           |
| E/D Function          | #1 OPEN          |           | PIN #3 ACTIVE |           |
|                       | #1 >=70%Vdd      |           | PIN #3 ACTIVE |           |
|                       | #1 <=30%Vdd      |           | PIN #3 HighZ  |           |
| PAD Connection        |                  |           | PIN#1 E/D     | PIN#3 OUT |
|                       |                  |           | PIN#2 GND     | PIN#4 Vdd |

## Reflow Soldering Profile

Total Time: 200 sec. Max.

Solder Melting Point :220 °C



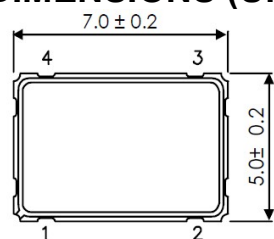
The design, manufacturing process, and specifications of this device are subject to change without notice.

# Crystal OSCILLATOR

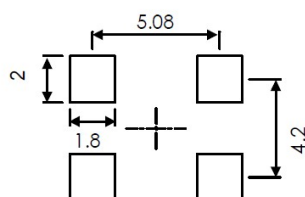
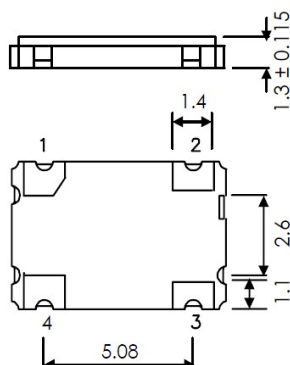
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## DIMENSIONS (UNIT: mm)

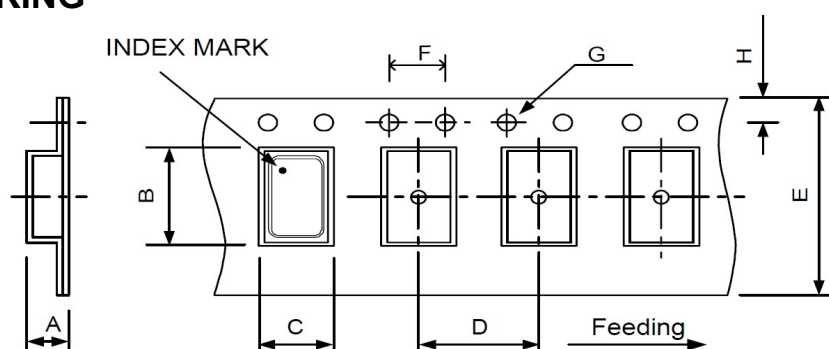


Pad Function:  
1:ENABLE CONTROL  
2:GND  
3:OUT  
4:VDD

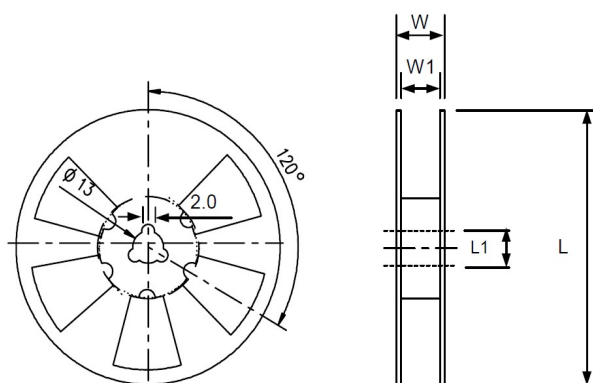


Suggested Layout

## PACKING



| DIMENSIONS | A    | B    | C    | D    | E     | F    | G    | H    | (UNIT : mm) |
|------------|------|------|------|------|-------|------|------|------|-------------|
|            | 2.00 | 7.90 | 5.45 | 8.00 | 16.00 | 4.00 | 1.50 | 1.75 |             |



| DIMENSIONS | L   | L1 | W    | W1 | pcs / Reel (UNIT : mm)                       |
|------------|-----|----|------|----|----------------------------------------------|
|            | 180 | 13 | 20.5 | 16 | Standard Reel Quantity is 1,000 pcs per reel |