

# Crystal OSCILLATOR

SEAM SEALED CERAMIC 7.0 X 5MM Surface Mount Package



|              |
|--------------|
| Approved by: |
| Checked by:  |
| Issued by:   |

## SPECIFICATION

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## ELECTRICAL SPECIFICATIONS

### FREQUENCY

|     | Parameter                     | Min. | Typ.     | Max. | Units | Test Condition  |
|-----|-------------------------------|------|----------|------|-------|---|
| 1-1 | Nominal Frequency             |      | 0,500000 |      | MHz   |   |
| 1-2 | Frequency stability (Overall) | -25  |          | 25   | ppm   | Frequency stability includes frequency tolerance@25 II and frequency stability vs. operating temperature range and voltage variance and first year aging. |
|     | 1-2-1 Aging                   | -3   |          | +3   | ppm   | Frequency drift in first year   |
| 1-3 | Operating Temperature range   | -40  |          | 85   | °C    | The operating temperature range over which the frequency stability is measured.   |
| 1-4 | Storage Temperature range     | -55  |          | 125  | °C    |   |

### POWER SUPPLY

|     | Parameter      | Min. | Typ. | Max. | Units | Test Condition            |
|-----|----------------|------|------|------|-------|---------------------------|
| 2-1 | Supply voltage | 2.97 | 3.3  | 3.63 | V     |                           |
| 2-2 | Current        |      |      | 10   | mA    | At maximum supply voltage |

### OUTPUT

|     | Parameter                        | Min.             | Typ. | Max. | Units | Test Condition  |
|-----|----------------------------------|------------------|------|------|-------|-----------------|
| 3-1 | Output waveform                  |                  | CMOS |      |       |                 |
| 3-2 | Duty Cycle                       | 45               | 50   | 55   | %     |                 |
| 3-3 | Start Time                       |                  |      | 5    | mSec  |                 |
| 3-4 | Transition Time : Rise/Fall Time |                  |      | 5    | nSec  |                 |
| 3-5 | Output Level                     | 2.97             |      |      | V     |                 |
| 3-6 | Output Level                     |                  |      | 0.33 | V     |                 |
| 3-7 | Output Load                      |                  |      | 15PF | pF    |                 |
| 3-8 | Tri-State                        | 2.31 or Floating |      |      | V     | Pin 1 Tri-state |
| 3-9 | Tri-State                        |                  |      | 0.99 | V     |                 |

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

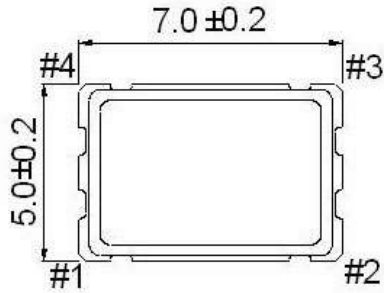
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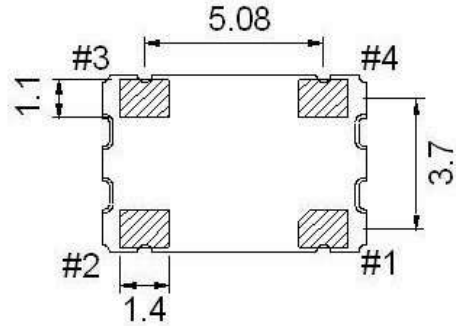
## DIMENSIONS

[ TOP VIEW ]

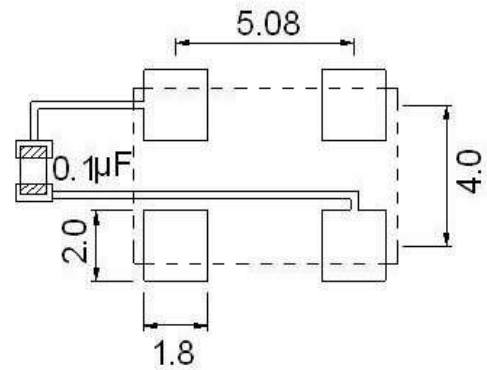
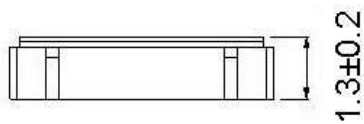


[ BOTTOM VIEW ]

Unit:mm



[ SIDE VIEW ]



Recommended soldering pattern

## PIN FUNCTION

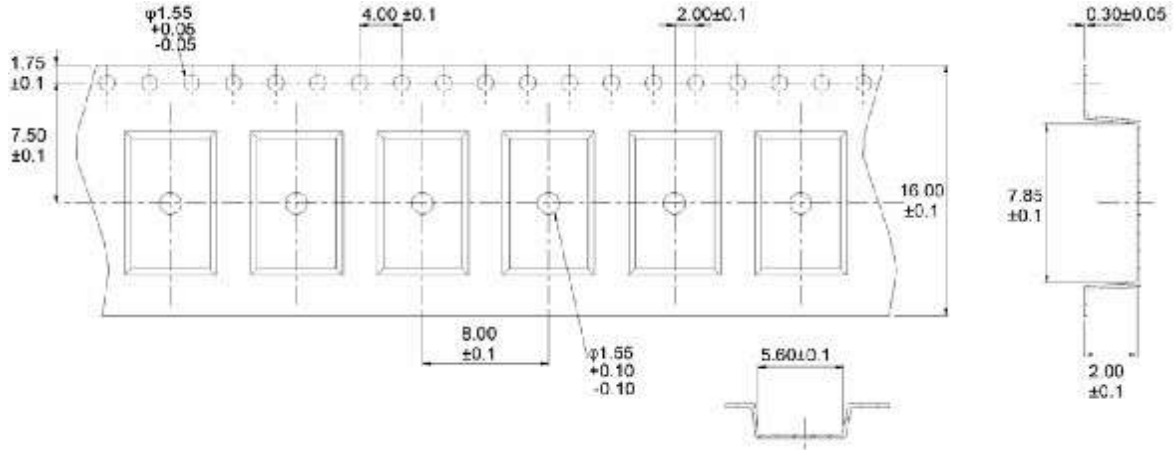
| Pin | Function        |
|-----|-----------------|
| #1  | Tri-State       |
| #2  | GND             |
| #3  | Output          |
| #4  | V <sub>DD</sub> |

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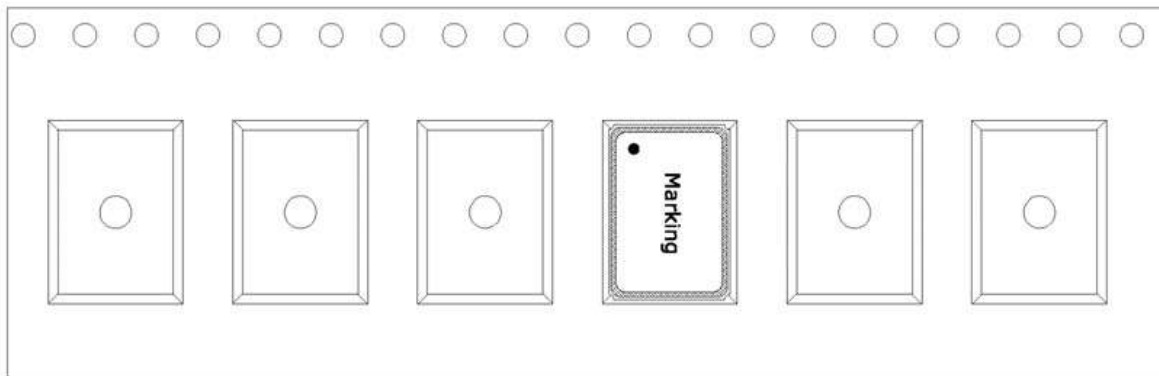
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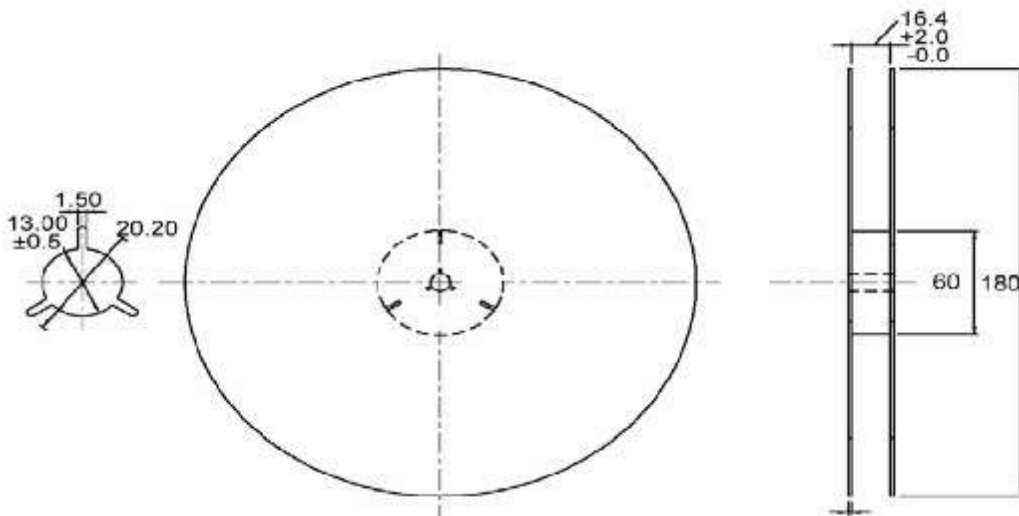
## TAPE DIMENSION (UNIT:MM)



## THE DIRECTION OF PACKING



## REEL DIMENSION (UNIT:MM)



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