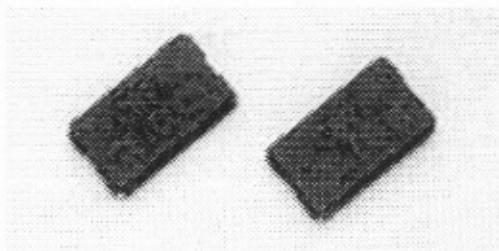


# MHz RANGE CRYSTAL UNITS (CERAMIC SURFACE MOUNT TYPE) CS5032H

# CITIZEN

(1,000 piece reel)



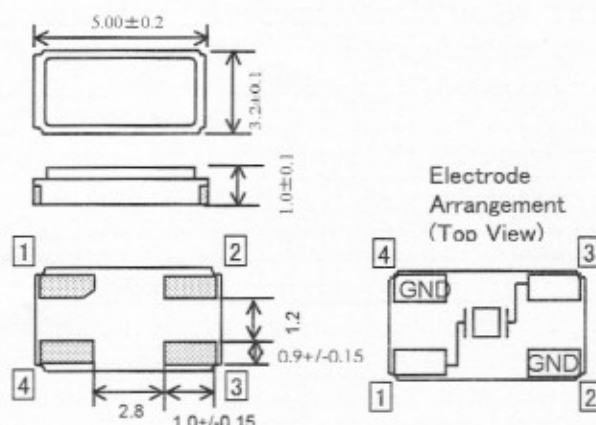
## ■ FEATURES:

- For high performance application requirements
- Small size Ceramic package
- Reflowable and lead-free product
- Tape and Reel

## ■ APPLICATIONS:

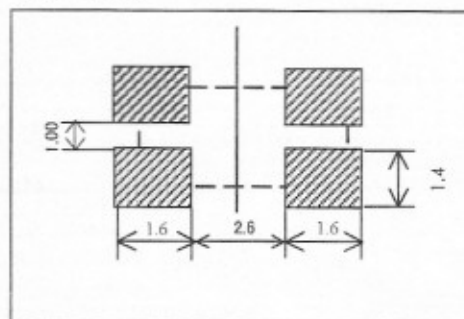
- Blue Tooth Applications
- Radio and Mobile Communication Systems

## ■ DIMENSIONS: (Unit=mm)



## ■ SOLDERING PATTERN:

(Unit=mm)



## ■ STANDARD SPECIFICATIONS

| Specifications                            | CS5032H                 | Conditions  |
|-------------------------------------------|-------------------------|-------------|
| Nominal frequency                         | 10.0MHz - 60.0MHz(Fund) |             |
| Frequency tolerance                       | +/-10ppm                | At 25C      |
| Frequency vs. Temperature characteristics | +/-10ppm                | -10C ~ +60C |
| Operating temperature range               | -40C - +85C             |             |
| Storage temperature range                 | -55C - +125C            |             |
| Equivalent series resistance              | see table below         | At 25C      |
| Load Capacitance                          | 10pF                    | Standard    |
| Shunt capacitance                         | 7.0pF max.              |             |
| Drive level                               | 100uW max.              |             |
| Insulation resistance                     | 500MΩ min.              |             |
| Aging(First year)                         | +/-5 ppm max.           |             |

## Frequency vs. Temperature curve



## EQUIVALENT SERIES RESISTANCE

| FREQUENCY             | ESR MAX |
|-----------------------|---------|
| 10.000MHZ ~ 11.999MHZ | 100Ω    |
| 12.000MHZ ~ 15.999MHZ | 70Ω     |
| 16.000MHZ ~ 60.000MHZ | 50Ω     |

# Mouser Electronics

Authorized Distributor

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## Citizen:

|                                               |                                               |                                                |                                               |
|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|-----------------------------------------------|
| <a href="#"><u>CS5032H-15.360MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-30.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-19.680MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-19.440MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-24.576MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-14.7456MEEQ-UT</u></a> | <a href="#"><u>CS5032H-28.63636MEEQ-UT</u></a> | <a href="#"><u>CS5032H-14.400MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-13.500MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-16.800MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-10.000MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-29.4912MEEQ-UT</u></a> |
| <a href="#"><u>CS5032H-19.200MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-19.800MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-12.800MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-12.288MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-44.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-40.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-18.432MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-16.000MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-11.0592MEEQ-UT</u></a> | <a href="#"><u>CS5032H-48.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-20.000MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-12.000MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-13.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-24.000MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-13.560MEEQ-UT</u></a>   | <a href="#"><u>CS5032H-22.000MEEQ-UT</u></a>  |
| <a href="#"><u>CS5032H-16.384MEEQ-UT</u></a>  | <a href="#"><u>CS5032H-26.000MEEQ-UT</u></a>  |                                                |                                               |