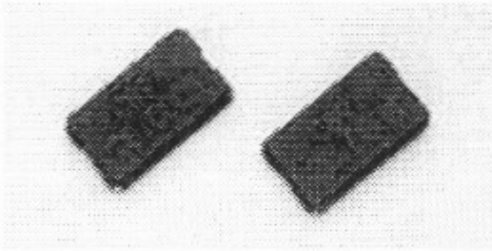


MHz RANGE CRYSTAL UNITS (CERAMIC SURFACE MOUNT TYPE) CS5032H

CITIZEN

(1,000 piece reel)



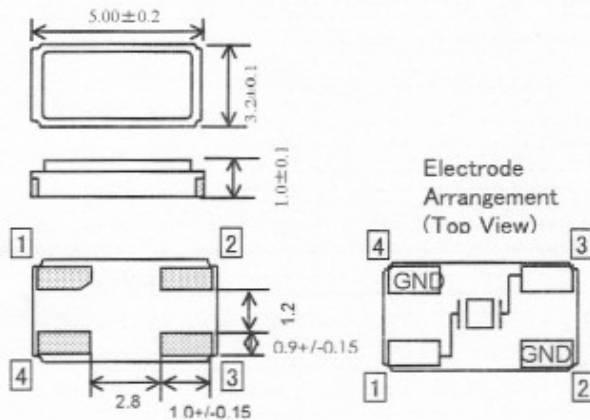
■ FEATURES:

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

■ APPLICATIONS:

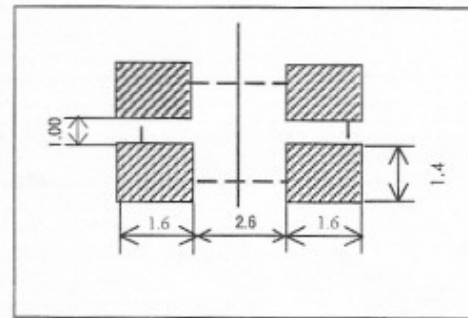
- Blue Tooth Applications
- Radio and Mobile Communication Systems

■ 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 |