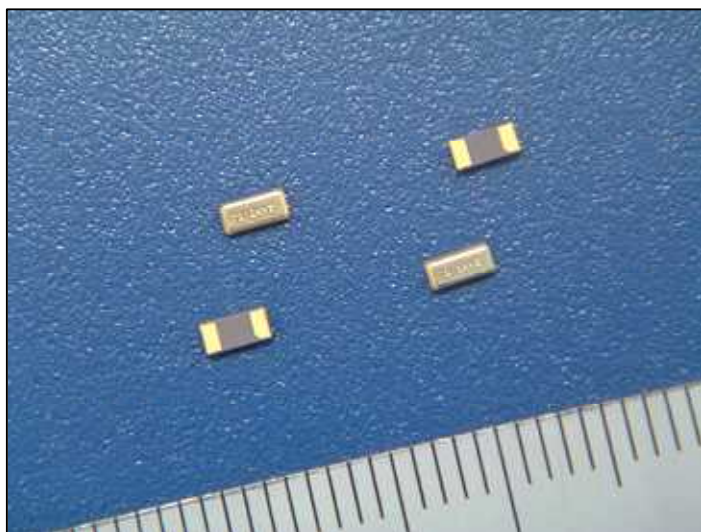


# SC-32S



## Features

- Ultra thin type (0.75mm)
- Suitable for high density surface mounting
- Excellent shock and heat resistance
- Complete Pb-free
- A crystal resonator processed by high reliable photolithographic technology inside.

## Applications

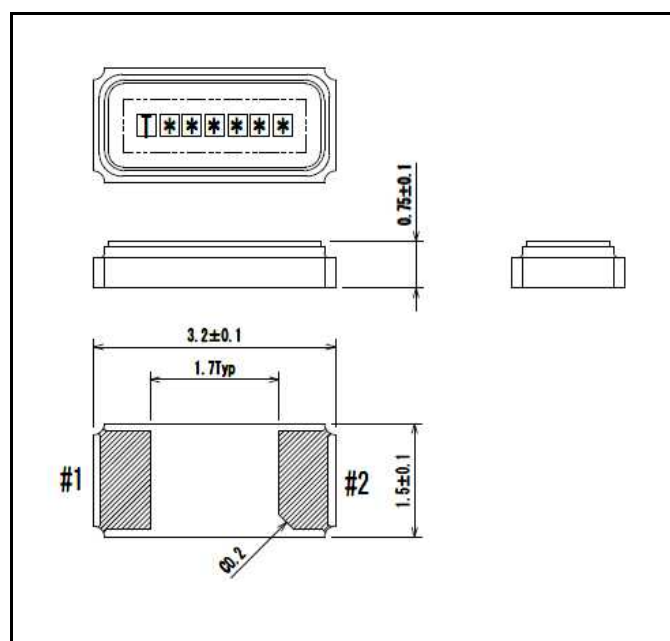
Cellular Phones, PHS, PDA, DSC, Car Audio  
GPS Module, FM Tuner Module, Mobile Device  
Sub-clock function for a variety of Micro-  
Controllers

## Standard Specifications

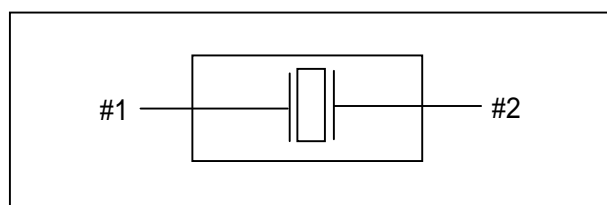
Conditions where not specified (Temperature: 25±2 °C, DL:0.1μW)

| Item                      | Symbol | Specifications                               | Conditions Note      |
|---------------------------|--------|--|----------------------|
| Nominal Frequency         | f_nom  | 32.768kHz                                    |                      |
| Frequency Tolerance       | f_tol  | ±20×10 <sup>-6</sup>                         |                      |
| Turnover Temperature      | Ti     | +25±5  |                      |
| Parabolic Coefficient     | B      | (-3.0±1.0)×10 <sup>-8</sup> /°C <sup>2</sup> |                      |
| Load Capacitance          | CL     | 7pF, 9pF, 12.5pF                             |                      |
| Motional Resistance (ESR) | R1     | 70kΩ Max.                                    |                      |
| Absolute Max. Drive Level | DLmax. | 0.5μW Max.                                   |                      |
| Drive Level               | DL     | 0.1μW typ.                                   |                      |
| Shunt Capacitance         | C0     | 1.0pF typ.                                   |                      |
| Frequency Ageing          | f_age  | ±3×10 <sup>-6</sup> /Year                    | +25±3 °C, First Year |
| Operating Temperature     | T_use  | -40 ~ +85                                    |                      |
| Storage Temperature       | T_stg  | -55 ~ +125                                   | Piece part basis     |

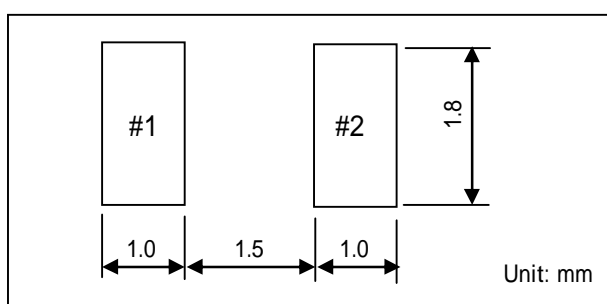
## Dimensions



## Internal Lead Connections



## Recommended Soldering



Remark: Please make sure that there is no pattern under SC-32S on the circuit board.

# Mouser Electronics

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[SC32S-12.5PF20PPM](#) [SC32S-7PF20PPM](#)