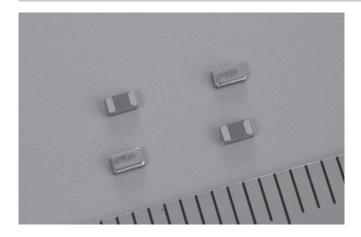
SC-20S NEW



FEATURES

- Ultra thin type with height 0.6mm max.
- SMD type suitable for automatic & high density surface mounting.
- Ceramic package containing highly reliable photolithographic processed quartz crystal.
- Excellent shock and heat resistance.
- · Complete Pb-free.

APPLICATIONS

Smartphones, Cellular Phones, PHS, Tablet PC, DVC, Radio Communication Equipment, Portable Applications etc.

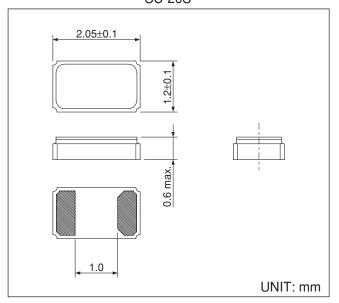
STANDARD SPECIFICATIONS

Conditions without notice (Temperature: +25±2°C, DL: 0.1µW)

| Item | Symbol | Specifications | Conditions / Notes |
|------------------------------|----------------|--|---------------------------------|
| Nominal Frequency | f_nom | 32.768kHz | |
| Frequency Tolerance | f_tol | ±20 x 10 ⁻⁶ | |
| Turnover Temperature | Ti | +25±5°C | |
| Parabolic Coefficient | В | (-3.0±1.0) x 10 ⁻⁸ /°C ² | |
| Load Capacitance | CL | (7.0pF) / 9.0pF / 12.5pF | |
| Motional Resistance (ESR) | R ₁ | 90kΩ max. | |
| Absolute Maximum Drive Level | DLmax | 0.5μW | "0.1μW max." is also available. |
| Level of Drive | DL | 0.1μW | |
| Shunt Capacitance | Co | 1.3pF typ. | |
| Frequency Ageing | f_age | ±3 x 10 ⁻⁶ | +25±3°C, First Year |
| Operating Temperature | T_use | -40°C to +85°C | |
| Storage Temperature | T_stg | −55°C to +125°C | Piece part basis |

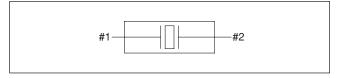
DIMENSIONS





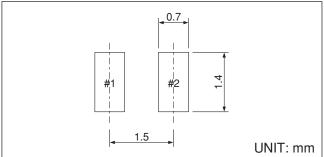
INTERNAL LEAD CONNECTION

SC-20S



RECOMMENDED SOLDERING PATTERN

SC-20S



Remark Please make sure there is no pattern under SC-20S on the circuit board.







