

3.2×1.5mm for Consumer/ Mobile Equipment/ Automotive



RoHS Compliant

### Features

- Small, Low Profile
- Ceramic Package
- Reflow Compatible
- AEC-Q200 qualified

### Applications

- Consumer/ Mobile Equipment
- Car navigation system
- Car audio system

### How to Order

ST3215SB 32768 □ □ □ □ □ □

- ① Series ② Frequency 32.768kHz ③ Load Capacitance ④ Frequency Tolerance
- |    |         |      |   |                         |
|----|---------|------|---|-------------------------|
| H5 | 12.5 pF | Std. | F | $\pm 10 \times 10^{-6}$ |
| E0 | 9.0 pF  |      | H | $\pm 20 \times 10^{-6}$ |
| C0 | 7.0 pF  |      |   |                         |
| B0 | 6.0 pF  |      |   |                         |
| A0 | 5.0 pF  |      |   |                         |
| Z0 | 4.0 pF  |      |   |                         |
- ⑤ Operating Temp. Range ⑥ Frequency Temp. Stability
- |   |              |   |                          |
|---|--------------|---|--------------------------|
| P | -40 to +85°C | W | $\pm 200 \times 10^{-6}$ |
|---|--------------|---|--------------------------|
- ⑦ Individual Specification

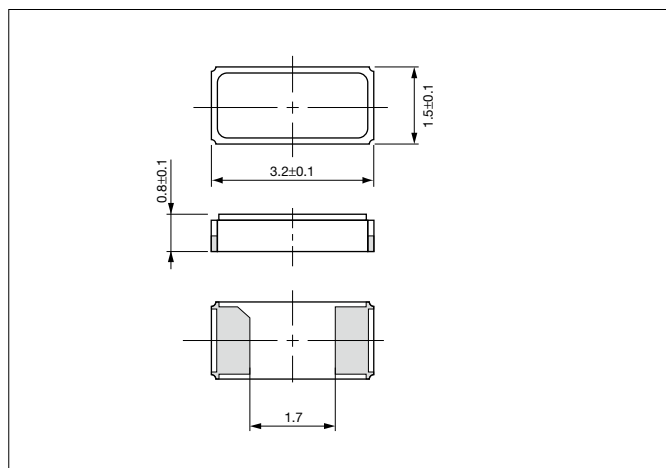
Packaging (Tape & Reel 3000/ 10000 pcs./ reel)

### Specifications

| Item                  | Symbol           | Specification                 | Units                               | Remarks           |
|-----------------------|------------------|-------------------------------|-------------------------------------|-------------------|
| Nominal Frequency     | f <sub>nom</sub> | 32.768                        | kHz                                 |                   |
| Frequency Tolerance   | f <sub>tol</sub> | ±10, ±20                      | ×10 <sup>-6</sup>                   | 25°C±3°C          |
| Turnover Temperature  | Ti               | +25±5                         | °C                                  |                   |
| Parabolic Coefficient | B                | -0.04 max.                    | ×10 <sup>-6</sup> / °C <sup>2</sup> |                   |
| Motional Resistance   | R1               | 70 max.                       | k-ohm                               |                   |
| Motional Capacitance  | C1               | 3.7 typ.                      | fF                                  |                   |
| Shunt Capacitance     | C0               | 0.9 typ.                      | pF                                  |                   |
| Load Capacitance      | CL               | 4.0/ 5.0/ 6.0/ 7.0/ 9.0/ 12.5 | pF                                  | Please contact us |
| Drive Level           | DL               | 0.1                           | μW                                  | 0.5 max.          |
| Operating Temp. Range | T <sub>use</sub> | -40 to +85                    | °C                                  |                   |
| Storage Temp. Range   | T <sub>stg</sub> | -55 to +85                    | °C                                  |                   |
| Frequency Aging       | f <sub>age</sub> | ±3                            | ×10 <sup>-6</sup>                   |                   |

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

