kHz Range Crystal unit

MC-306

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-306 32.768000 kHz 10.0 +10.0-10.0 Q13MC30610052xx

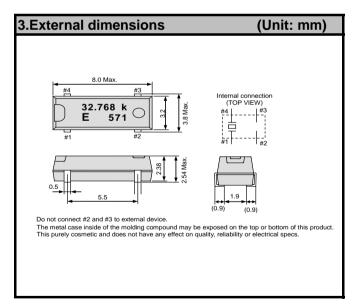
Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive

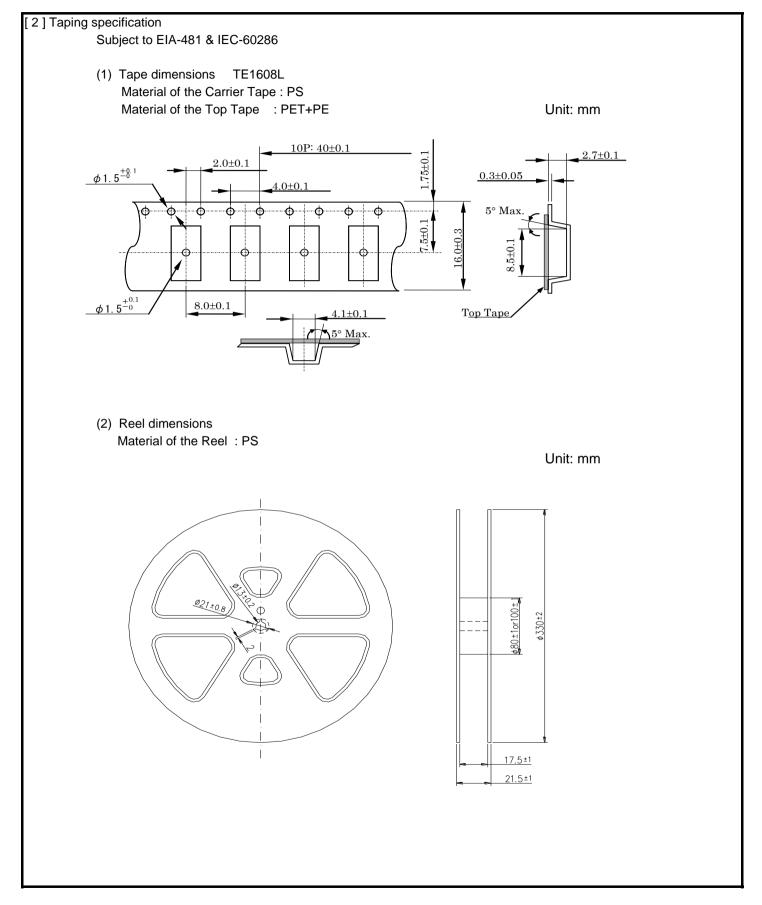
Reference weight Typ. 126 mg

| 1.Absolute maximum ratings | | | | | | | | |
|----------------------------|--------|------|------|------|------|---------------------------|--|--|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions / Remarks | | |
| Storage temperature | T_stg | -55 | - | 125 | °C | Storage as single product | | |
| Maximum drive level | GL | - | - | 1.0 | μW | | | |

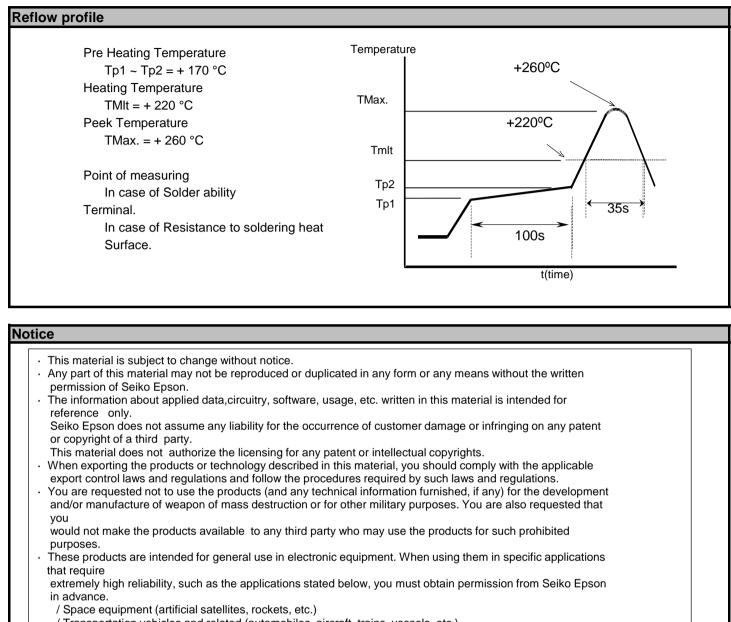
| 2.Specificatoins(characteristics) | | | | | | |
|-----------------------------------|--------|-------|--------|-------|-------------------------------------|----------------------|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions / Remarks |
| Nominal frequency | f_nom | - | 32.768 | - | kHz | |
| Operating temperature | T_use | -40 | - | 85 | °C | |
| Level of drive | DL | - | - | 1.0 | μW | |
| Frequency tolerance | f_tol | -10.0 | - | +10.0 | x 10⁻ ⁶ | +25ºC DL=0.1µW |
| Turnover temperature | Ti | 20 | 25 | 30 | °C | |
| Parabolic coefficient | В | - | - | -0.04 | x 10 ⁻⁶ /°C ² | |
| Load capacitance | CL | - | 10.0 | - | pF | |
| Motional resistance (ESR) | R1 | - | 35 | 50 | kΩ | |
| Motional capacitance | C1 | - | 1.8 | - | fF | |
| Shunt capacitance | C0 | - | 0.9 | - | pF | |
| Motional inductance | L1 | - | 11.7 | - | kH | |
| Frequency aging | f_age | -3 | - | 3 | x10 ⁻⁶ /yea | @+25°C, First year |



| 5.Packing | informati | on | | |
|------------|------------|-----------------------------------|------|------------------------------|
| [1]Product | number las | st 2 digits code (xx) description | | The recommended code is "00" |
| | Q13MC30 | 0610052xx | | |
| | Code | Condition | Code | Condition |
| | 01 | Any Q'ty vinyl bag(Tape cut) | 14 | 1000pcs / Reel |
| | 11 | Any Q'ty / Reel | 15 | 2000pcs / Reel |
| | 12 | 250pcs / Reel | 00 | 3000pcs / Reel |
| | 13 | 500pcs / Reel | | |



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- / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
- / Medical instruments to sustain life
- / Submarine transmitters
- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
- / And others requiring equivalent reliability.

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