

# QUARTZ CRYSTAL UNIT

SERIES 7E, SEAM SEALED CERAMIC 2.5X2.0MM SMD TYPE



Approved by:

Checked by:

Issued by:

## SPECIFICATION

P/N: 7E1638400C06MBL

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# QUARTZ CRYSTAL UNIT



**SERIES 7E, SEAM SEALED CERAMIC 2.5X2.0MM SMD TYPE**

## FEATURE

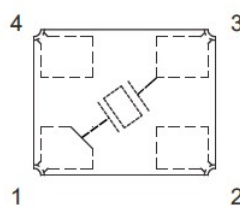
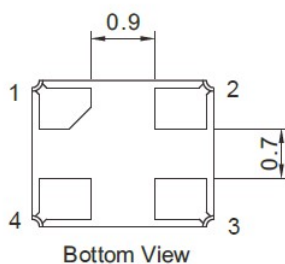
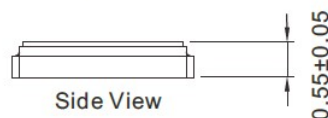
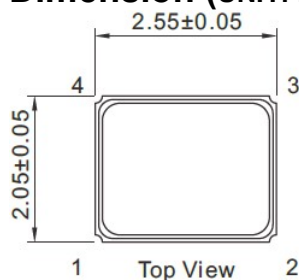
- Ultra thin, thickness 0.5mm
- Leadless type
- High precision characteristic covering up to high frequency range
- Designed for automatic mounting and reflow soldering
- Embossed tapping specification
- The best choice of Bluetooth wireless communication sets, DSN, PDA and mobile phone

## ELECTRICAL SPECIFICATIONS

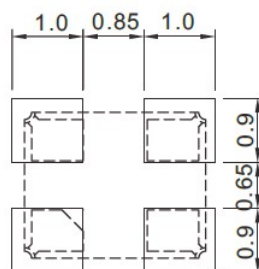
|                                                                |                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------|
| Output Frequency Range                                         | 16.384MHz                                                    |
| Mode                                                           | AT/Fundamental                                               |
| Frequency Tolerance (at 25°C)                                  | ±10ppm                                                       |
| Frequency Stability Over Operating Temperature Characteristics | ±20ppm                                                       |
| Operating Temperature Range                                    | -40 °C to +85 °C                                             |
| Storage Temperature Range                                      | -40 °C to +105 °C                                            |
| Shunt Capacitance (C <sub>0</sub> )                            | 2.0 pF Max                                                   |
| Driver Level (Typical)                                         | 100µW                                                        |
| Load Capacitance (C <sub>L</sub> )                             | 10 pF                                                        |
| Equivalent series resistance                                   | 80ΩMax                                                       |
| Aging @25°C 1 <sup>st</sup> year (Max)                         | ±1ppm/year                                                   |
| Shock Resistance                                               | Drop test of 3 times on 2mm stainless plate from 75cm height |

**REMARK:** SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. PLEASE CONFIRM WITH OUR SALES ENGINEER.

## Dimension (UNIT: MM)



Top View Crystal Connection



Top View Suggested Layout

*The design, manufacturing process, and specifications of this device are subject to change without notice.*

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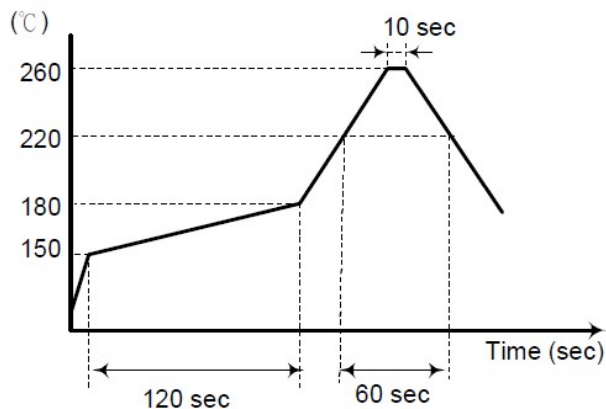


**SERIES 7E, SEAM SEALED CERAMIC 2.5X2.0MM SMD TYPE**

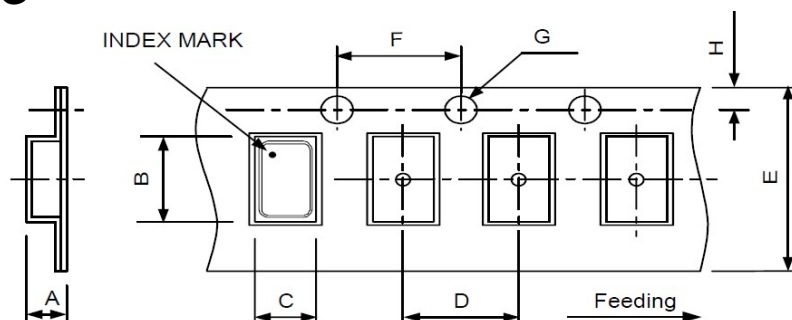
## Reflow Condition

Total Time: 200 sec. Max.

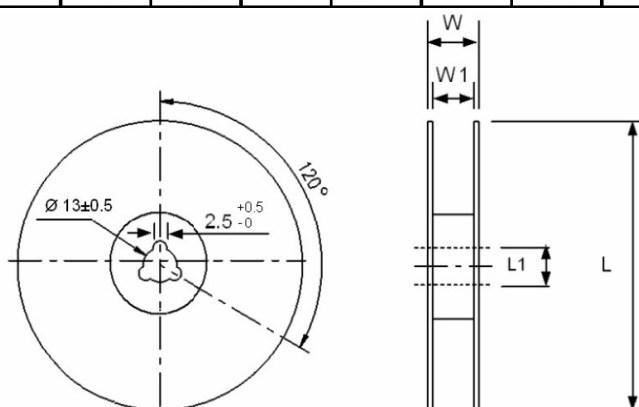
Solder Melting Point :220 °C



## PACKING



| DIMENSIONS | A              | B             | C              | D          | E          | F          | G              | H             | (UNIT : mm) |
|------------|----------------|---------------|----------------|------------|------------|------------|----------------|---------------|-------------|
|            | 1.55<br>± 0.05 | 2.7<br>± 0.05 | 2.25<br>± 0.05 | 4<br>± 0.1 | 8<br>± 0.2 | 4<br>± 0.1 | 1.55<br>± 0.05 | 1.75<br>± 0.1 |             |



| DIMENSIONS | L     | L1      | W         | W1        | pcs / Reel (UNIT : mm)                       |
|------------|-------|---------|-----------|-----------|----------------------------------------------|
|            | 178±1 | 13± 0.5 | 11.5± 0.2 | +1<br>8-0 | Standard Reel Quantity is 3,000 pcs per reel |

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