

# LOW FREQUENCY REFLOWABLE CYLINDRICAL WATCH CRYSTAL



6.0 x  $\phi$ 1.9mm

**AB26TRB**

Pb in high temperature solder  
(exempt 7(a) per 2015/863/EU Annex)

**RoHS**  
Compliant

## FEATURES:

- Formed leads for low cost SMD type
- Excellent shock resistance
- Reflow Capable
- Low cost for consumer applications
- IR reflow capable

## APPLICATIONS:

- Real time clock
- Measuring instruments
- Blue-tooth and wireless applications

## STANDARD SPECIFICATIONS:

| Parameters                        | Minimum | Typical           | Maximum | Units               | Notes                         |
|-----------------------------------|---------|-------------------|---------|---------------------|-------------------------------|
| Center Frequency                  |         | 32.768            |         | kHz                 |                               |
| Operating Temperature             | -40     |                   | +85     | °C                  |                               |
| Turnover Temperature              | +20     | +25               | +30     | °C                  |                               |
| Storage Temperature               | -55     |                   | +125    | °C                  |                               |
| Frequency Tolerance @+25°C        | -20     |                   | +20     | ppm                 | See options                   |
| Frequency Coefficient ( $\beta$ ) |         | -0.035 $\pm$ 0.01 |         | ppm/°C <sup>2</sup> |                               |
| Equivalent series resistance (R1) |         | 35                | 50      | k $\Omega$          | @25°C                         |
| Shunt capacitance (C0)            |         | 1.35              |         | pF                  |                               |
| Load capacitance (CL)             |         | 12.5              |         | pF                  | See options                   |
| Drive Level                       |         |                   | 1       | $\mu$ W             |                               |
| Quality Factor                    |         | 70,000            |         |                     |                               |
| Aging                             | -3      |                   | +3      | ppm                 | @25°C $\pm$ 3°C<br>First year |
| Insulation Resistance             | 500     |                   |         | M $\Omega$          | @ 100Vdc $\pm$ 15V            |

## OPTIONS & PART IDENTIFICATION: (Left blank if standard)

AB26TRB-32.768kHz -  -  -

| Load Capacitance (pF) |
|-----------------------|
| Blank: 12.5pF         |
| 6: 6pF                |
| 10: 10pF              |

| Freq. Tolerance     |
|---------------------|
| Blank: $\pm$ 20 ppm |
| 1: $\pm$ 10 ppm     |
| 7: $\pm$ 15 ppm     |

| Packaging      |
|----------------|
| Blank: Bulk    |
| T: Tape & Reel |

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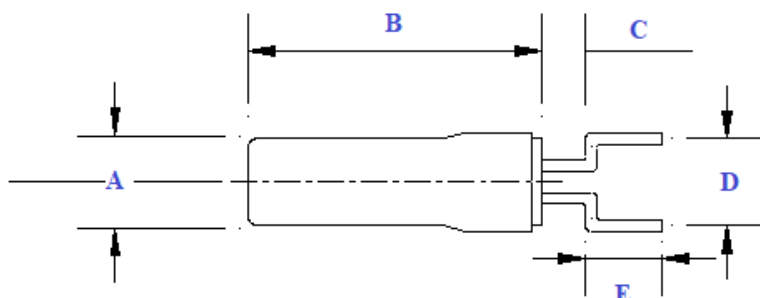
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## OUTLINE DIMENSIONS:

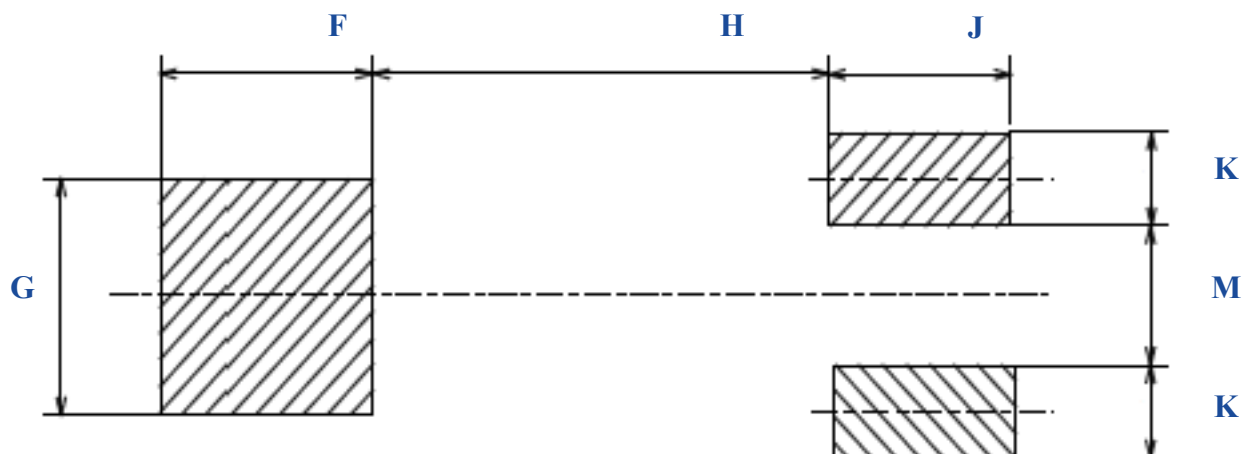


| Dimension Table |                    |
|-----------------|--------------------|
| A               | $\phi 1.9 \pm 0.1$ |
| B               | $6.0 \pm 0.2$      |
| C               | 1.0                |
| D               | $2.54 \pm 0.3$     |
| E               | $2.0 \pm 0.3$      |

### NOTE:

The body/can of the component is not to be soldered. To do so may cause damage to the crystal.

Use Adhesive/Bonding Materials (i.e. Rubber Adhesive, Epoxy, etc) to affix the component body to the PCB.



| F   | G   | H    | J   | K   | M   |
|-----|-----|------|-----|-----|-----|
| 2.5 | 2.5 | 5.25 | 2.5 | 1.0 | 1.5 |

Dimensions: mm

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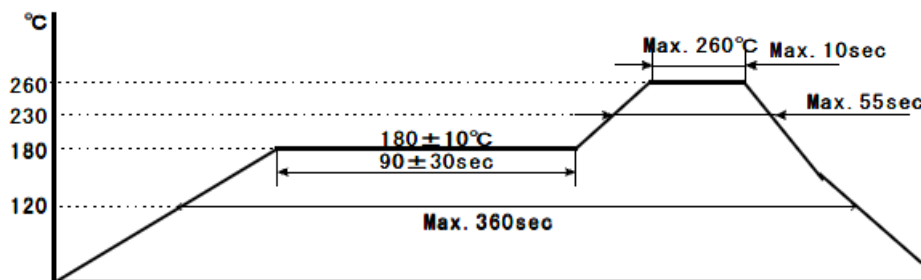
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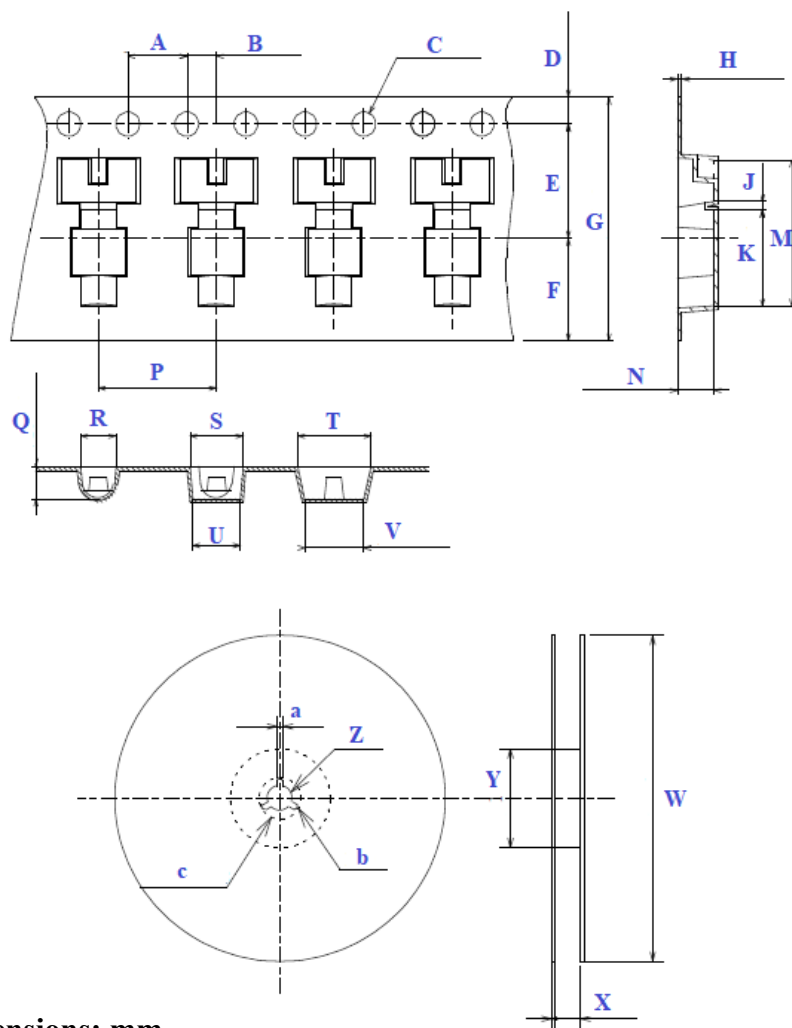
RoHS  
Compliant

## REFLOW PROFILE:



## TAPE & REEL:

Packaging: 2000pcs/reel



Dimensions: mm

Dimension Table

| Dimension | Value       |
|-----------|-------------|
| A         | 4.0 ± 0.1   |
| B         | 2.0 ± 0.1   |
| C         | Ø 1.5 ± 0.1 |
| D         | 1.75 ± 0.1  |
| E         | 7.5 ± 0.1   |
| F         | (6.75)      |
| H         | 0.3 ± 0.05  |
| G         | 16 ± 0.3    |
| J         | 0.6         |
| K         | 6.3 ± 0.1   |
| M         | 9.4         |
| N         | 2.15 ± 0.1  |
| P         | 8.0 ± 0.1   |
| Q         | 2.15 ± 0.1  |
| R         | 2.05        |
| S         | 3.6         |
| T         | 5.0         |
| U         | 3.2         |
| V         | 4.0 ± 0.1   |
| W         | Ø 330       |
| X         | 19.5        |
| Y         | Ø 100       |
| Z         | Ø 13        |
| a         | 2.0         |
| b         | R1.0        |
| c         | Ø 21 ± 0.8  |

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