32.768kHz WATCH CRYSTAL, 8.3 x ø3.2MM CYLINDER PACKAGE

APPLICATIONS:

Real time clock

Measuring instruments.





Clock source for communication or A/V equipment.

> FEATURES:

Watch frequency

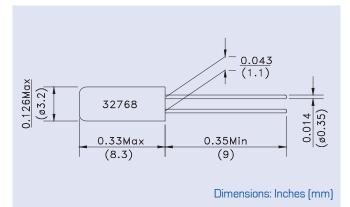
AB38T

- Frequency range from 30kHz to 200kHz
- Excellent heat resistance.

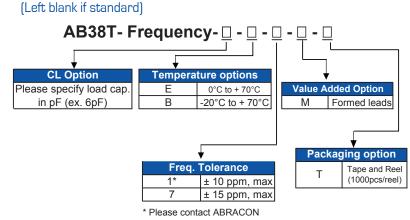
STANDARD SPECIFICATIONS:

PARAMETERS ABRACON P/N: AB38T Series Nominal frequency: 32.768kHz -10°C to + 60°C (see option) Operating temperature: Storage temperature: -40°C to + 85°C Turn-over temperature: +25°C ± 5°C Frequency tolerance: ± 20 ppm max.(see option) -0.034 ± 0.006 ppm/ T² **Temperature Coefficient:** Equivalent series resistance: 30 kΩ max. Shunt capacitance C0: 1.60 pF typ. Load capacitance CL: 12.5 pF typ. (see option) 0.0035 pF typ. Motional capacitance C1: Capacitance ratio: 4600 typ. Quality factor: 90,000 typ. Drive level: 1.0 µW max. Aging @ 25° C first year: \pm 3 ppm max. (32.768kHz) and \pm 5 ppm max. (others) 500 Mohms min. at 100Vdc ± 15V Insulation resistance:

> OUTLINE DRAWING:



> OPTIONS & PART IDENTIFICATION:



for availability





Visit www.abracon.com for Terms & Conditions of Sale **Revised: 01.28.09** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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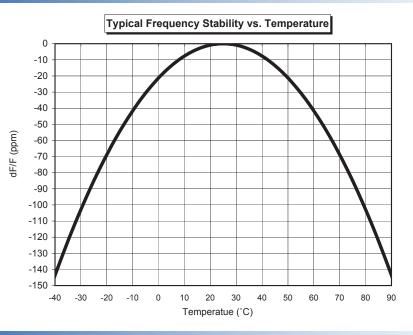
AB38T



8.3 x ø3.2mm

AB38T

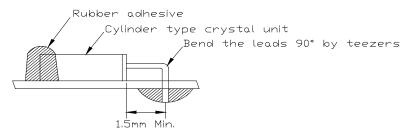
TUNING FORK CRYSTAL TEMPERATURE CURVE



HANDLING INSTRUCTIONS

Mounting:

(1) Soldering on the body of the cylinder type crystal unit must be strictly avoided due to deteriorate the characteristics or damage the products. Rubber adhesive is recommended.



(2) When the leads need to be bent by hand, follow the instructions below.

- Hold the body of the Cylinder type crystal unit in fingers.
- Pick at the part with tweezers, which you intend to bend. There should be more than 1.5mm (3.0mm is recommendable) from the body case.
- Bend the lead 90° by tweezers without pulling the lead strongly. Pulling the leads forcefully may cause cracks in the glass hermetic seal resulting in component failure.

