AB38T



AB38T

8.3 x ø3.2mm

## **FEATURES**:

Watch frequency

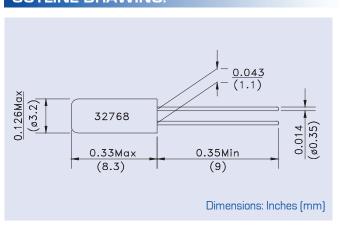
#### **APPLICATIONS:**

- Real time clock
- Measuring instruments.
- Clock source for communication or A/V equipment.

# **STANDARD SPECIFICATIONS:**

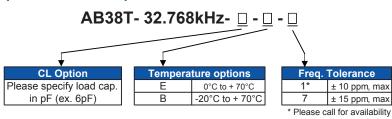
PARAMETERS	
ABRACON P/N:	AB38T Series
Nominal frequency:	32.768kHz
Operating temperature:	-10°C to + 60°C (see option)
Storage temperature:	-40°C to + 85°C
Turn-over temperature:	+25°C ± 5°C
Frequency tolerance:	± 20 ppm max.(see option)
Temperature Coefficient:	-0.034 ± 0.006 ppm/ T <sup>2</sup>
Equivalent series resistance:	30 kΩ max.
Shunt capacitance C0:	1.60 pF typ.
Load capacitance CL:	12.5 pF typ. (see option)
Motional capacitance C1:	0.0035 pF typ.
Capacitance ratio:	4600 typ.
Quality factor:	90,000 typ.
Drive level:	1.0 μW max.
Aging @ 25° C first year:	± 3 ppm max. (32.768kHz) and ± 5 ppm max. (others)
Insulation resistance:	500 Mohms min. at 100Vdc ± 15V

# **OUTLINE DRAWING:**



### **OPTIONS & PART IDENTIFICATION:**

(Left blank if standard)





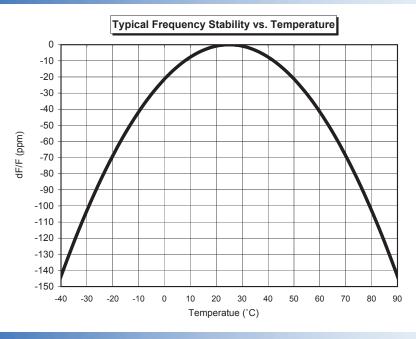
AB38T

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8.3 x ø3.2mm

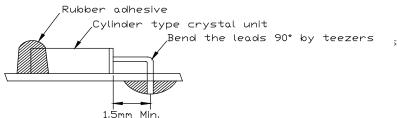
### **TUNING FORK CRYSTAL TEMPERATURE CURVE**



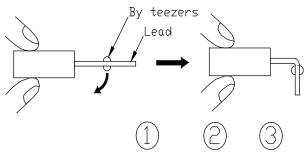
#### **HANDLING INSTRUCTIONS**

#### 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.



**NOTE**: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.



