

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

AB38T

AB38T



RoHS
Compliant

8.3 x ø3.2mm

FEATURES:

- Watch frequency

APPLICATIONS:

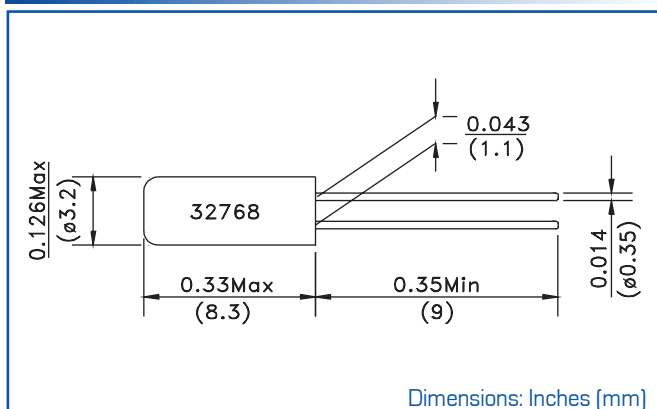
- Real time clock
- Measuring instruments.
- Clock source for communication or A/V equipment.

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 ²
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:

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AB38T- 32.768kHz- □ - □ - □

CL Option

Please specify load cap. in pF (ex. 6pF)

Temperature options

E	0°C to + 70°C
B	-20°C to + 70°C

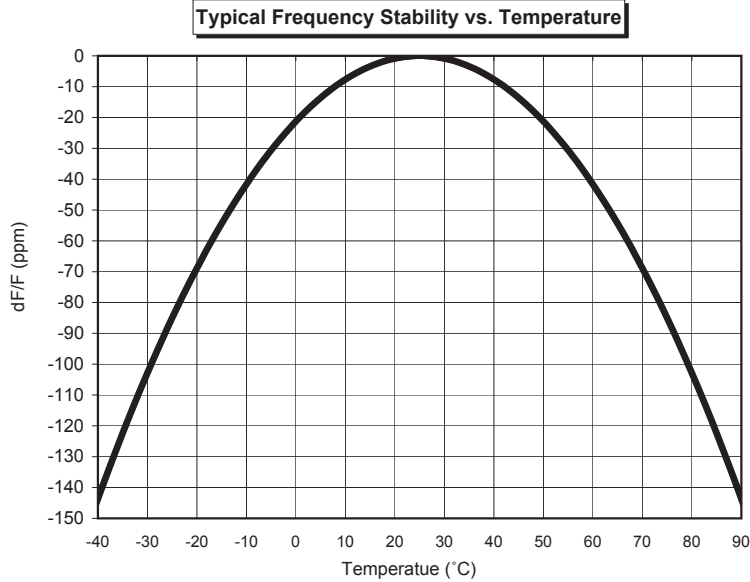
Freq. Tolerance

1*	± 10 ppm, max
7	± 15 ppm, max

* Please call for availability



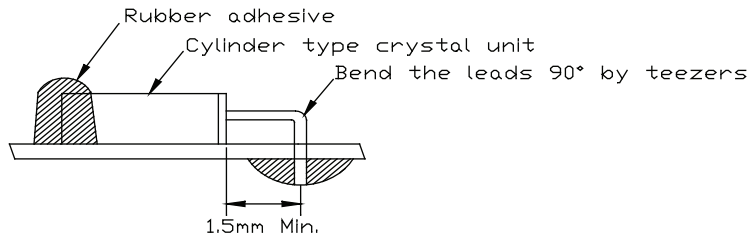
TUNING FORK CRYSTAL TEMPERATURE CURVE



HANDLING INSTRUCTIONS

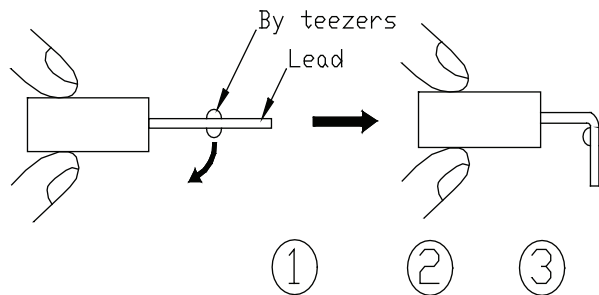
Mounting:

(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.



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