



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL

AB15T

AB15T



RoHS
Compliant

5.1 x 1.5 mm

FEATURES:

- Watch frequency
- Excellent heat resistance

APPLICATIONS:

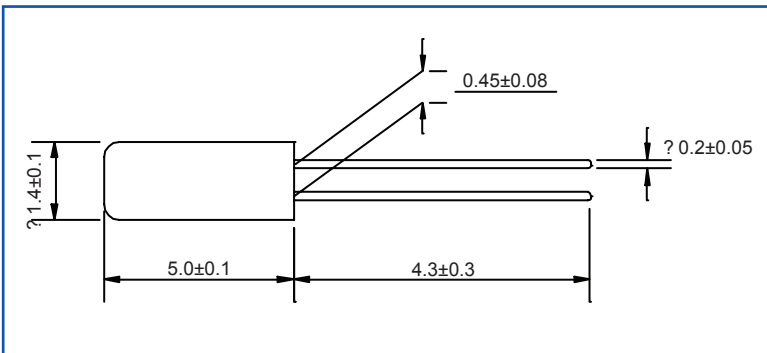
- Real time clock, Measuring instruments
- Clock source for communication or A/V equipment

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	AB15T Series
Frequency Range	32.768 kHz
Operating Temperature	- 20°C to + 70°C
Storage Temperature	-40°C to + 85°C
Turn-over Temperature	+25°C to $\pm 5^\circ\text{C}$
Frequency Tolerance	± 20 ppm max.
Temperature Coefficient	-0.034 ± 0.006 ppm/ T ²
Equivalent Series Resistance	40 kohms max.
Shunt Capacitance C ₀	1.00 pF typ.
Load Capacitance C _L	12.5 pF
Quality factor	85,000 typ.
Drive Level	1 μW max.
Aging at 25°C First Year	± 3 ppm max.
Insulation Resistance	500 Mohms min. at 100 Vdc $\pm 15\text{V}$

OUTLINE DRAWING:

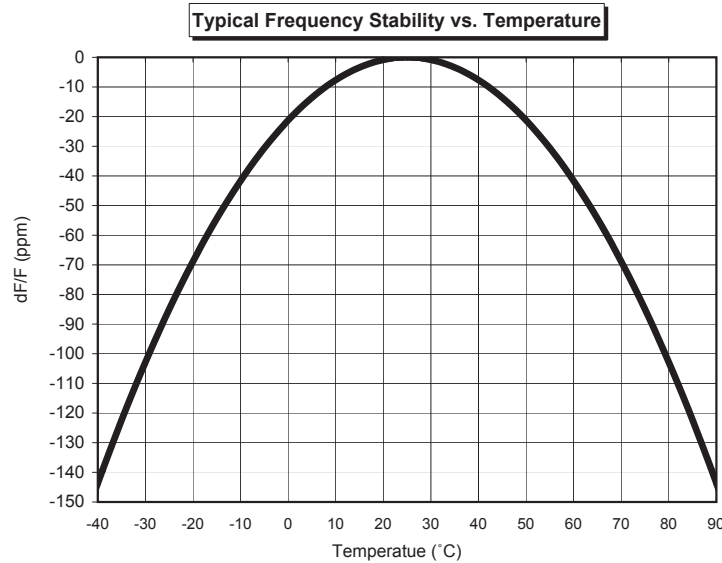


PART IDENTIFICATION: (ORDERING PART NUMBER)

AB15T-32.768KHz



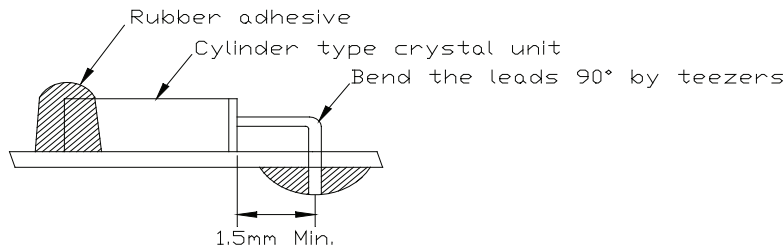
TUNING FORK CRYSTAL TEMPERATURE CURVE



HANDLING INSTRUCTIONS

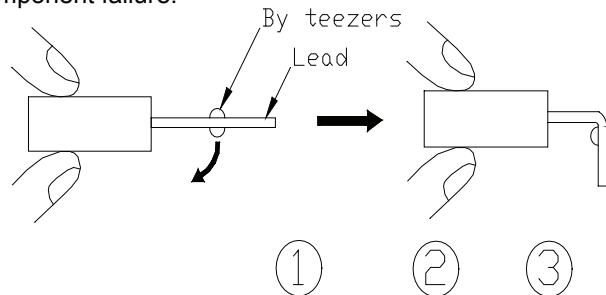
Mounting:

(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.



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.