# LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL

AB15T



5.1 x 1.5 mm

**AB15T** 

### > FEATURES:

- Watch frequency
- · Excellent heat resistance

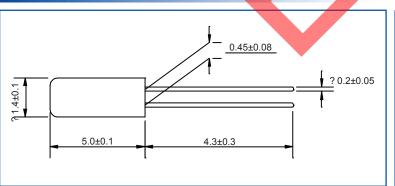
#### > APPLICATIONS:

- 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 ± 5°C
Frequency Tolerance	± 20 ppm max.
Temperature Coefficient	-0.034 ± 0.006 ppm/ T <sup>2</sup>
Equivalent Series Resistance	40 kohms max.
Shunt Capacitance C <sub>0</sub>	1.00 pF typ.
Load Capacitance C <sub>L</sub>	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 ± 15V

## **OUTLINE DRAWING:**



#### PART IDENTIFICATION: (ORDERING PART NUMBER)

AB15T-32.768KHz





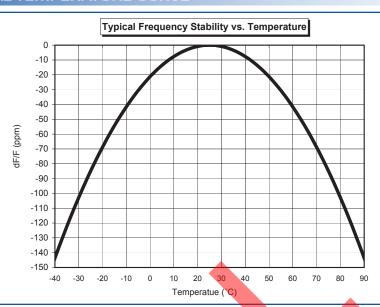
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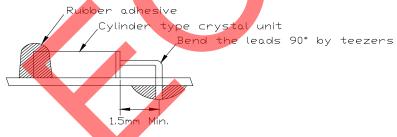
### **TUNING FORK CRYSTAL TEMPERATURE CURVE**



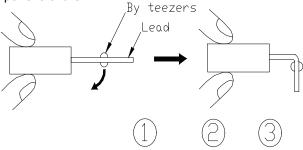
#### **HANDLING INSTRUCTIONS**

#### 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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