## LOW FREQUENCY, 32.768kHz CYLINDRICAL TYPE TUNING FORK CRYSTALS AB38T and AB26T



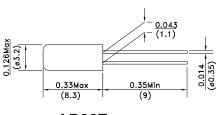
### FEATURES:

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

### APPLICATIONS:

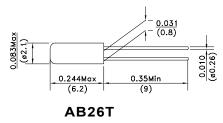
- Real time clock.
- Measuring instruments. Clock source for communication or A/V equipment.

#### STANDARD SPECIFICATIONS PARAMETERS AB38T **AB26T** 32.768kHz **Frequency Range** 32.768kHz 30kHz to 200kHz **Operating Temperature** -10°C to +60°C (See Options) Storage Temperature -40°C to +85°C **Turnover Temperature** 25°C to ±5°C Frequency Tolerance @ 25°C ±20ppm max.(32.768kHz) ±20ppm max. & ±30ppm max.(others) Frequency Stability over Temp -0.034 ±0.006ppm / (25-T)2 \*\* Equivalent Series Resistance (ESR) 30kΩ max. 35kΩ max.(32.768kHz) $35k\Omega \sim 50K\Omega$ (others) Shunt Capacitance Co 1.6pF typical 0.8 to 1.7pF typical Load Capacitance CI (See Note) 12.5pF typical (See Options) Motion Capacitance C1 0.0035pF typ. 0.001 ~ 0.004pF typ. Drive Level 1µW max. Quality Factor Q 90,000 typical 70,000 typical Capacitance Ratio C<sub>0</sub> / C<sub>1</sub> 460 typical 425 - 800 typical 500 M $\Omega$ min. at 100 Vdc ±15 V Insulation Resistance Aging @ 25°C First year ±3ppm max. ±3ppm (32.768kHz) ±5ppm (others)



**AB38T** 

Dimensions: Inches (mm)



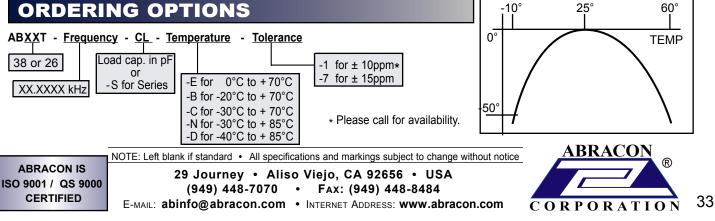
**Note :** Custom C<sub>1</sub> upon request at 6 pF. Check with us for other C<sub>1</sub> value. \*\* Example: Stability at -20°C is: -0.035 x [25-(-20)]<sup>2</sup> = -71ppm.

Environmental, and mechanical specifications, see appendix C. Group 3. Marking, see appendix G. Recommended handling, see appendix F.

Application notes, see appendix A.

## ORDERING OPTIONS





# **Mouser Electronics**

Authorized Distributor

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ABRACON: AB38T-32.768KHZ AB38T-32.768KHZ-B7