

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



8.3 x Ø3.2 mm or 6.2 x Ø2.1 mm

FEATURES:

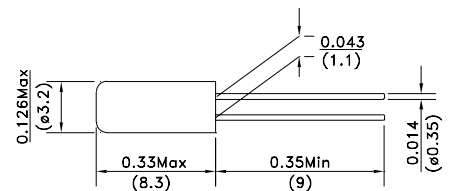
- Watch frequency.
- Frequency range from 30kHz to 200kHz.
- Excellent heat resistance.

APPLICATIONS:

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

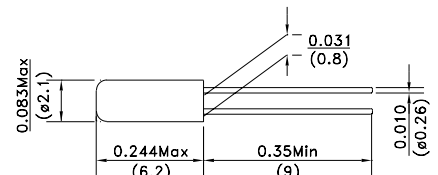
STANDARD SPECIFICATIONS

PARAMETERS	AB38T	AB26T
Frequency Range	32.768kHz	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.	±20ppm max.(32.768kHz) & ±30ppm max.(others)
Frequency Stability over Temp	-0.034 ±0.006ppm / (25-T) ² **	
Equivalent Series Resistance (ESR)	30kΩ max.	35kΩ max.(32.768kHz) 35kΩ ~ 50KΩ (others)
Shunt Capacitance C ₀	1.6pF typical	0.8 to 1.7pF typical
Load Capacitance C _L (See Note)	12.5pF typical (See Options)	
Motion Capacitance C ₁	0.0035pF typ.	0.001 ~ 0.004pF typ.
Drive Level	1μW max.	
Quality Factor Q	90,000 typical	70,000 typical
Capacitance Ratio C ₀ / C ₁	460 typical	425 - 800 typical
Insulation Resistance	500 MΩ min. at 100 Vdc ±15 V	
Aging @ 25°C First year	±3ppm max.	±3ppm (32.768kHz) ±5ppm (others)



AB38T

Dimensions: Inches (mm)



AB26T

Note : Custom C_L upon request at 6 pF. Check with us for other C_L value.

** Example: Stability at -20°C is: -0.035 x [25-(-20)]² = -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

ABXXT - Frequency - CL - Temperature - Tolerance

38 or 26

Load cap. in pF
or
-S for Series

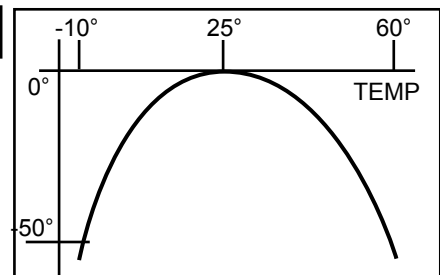
XX.XXXX kHz

-E for 0°C to +70°C
-B for -20°C to +70°C
-C for -30°C to +70°C
-N for -30°C to +85°C
-D for -40°C to +85°C

-1 for ± 10ppm*
-7 for ± 15ppm

* Please call for availability.

TYPICAL FREQUENCY -vs- TEMPERATURE CURVE



NOTE: Left blank if standard • All specifications and markings subject to change without notice

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