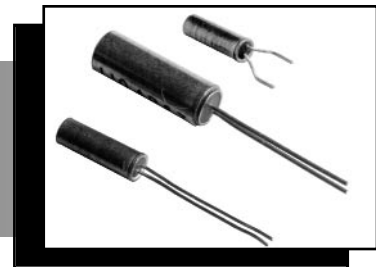


**LOW FREQUENCY, CYLINDRICAL TYPE
WATCH CRYSTALS 32.768 kHz
AB38T and AB26T**



FEATURES:

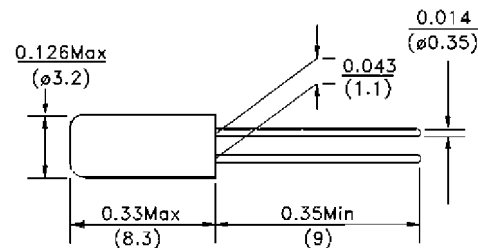
- Watch Frequency.
- Frequency Range from 30 kHz to 200 kHz.
- Formed Leads, Low Profile (-M).
- Excellent Heat Resistance.

APPLICATIONS:

- Real Time Clock.
- Measuring Instruments.
- Clock Source for Communication or A/V Equipment.

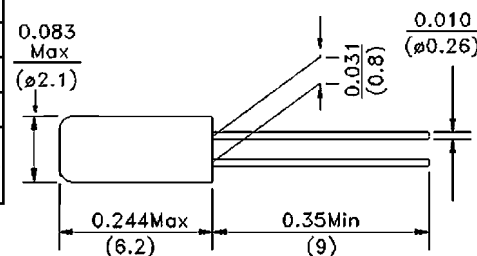
STANDARD SPECIFICATIONS

PARAMETERS	AB38T	AB26T
Frequency Range	32.768 kHz	32.768 kHz 30 kHz to 200 kHz
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	± 20 ppm max. (32.768 KHz) & ± 30ppm(other)	
Frequency Stability over Temp	-0.034± 0.006 ppm / (25-T) ²	
Equivalent Series Resistance (ESR)	30 k Ω max.	35 k Ω max.(32.768KHz)(other) 35 k Ω max. - 50KHz)(other)
Shunt Capacitance C ₀	1.6 pF typical	0.8 to 1.7 pF typical
Load Capacitance C _L (See Note 1)	12.5 pF typical (See Options)	
Motion Capacitance C ₁	0.0035 pF typical	1 - 4 pF typical
Drive Level	1 μW max.	
Quality Factor Q	90,000 typical	70,000 typical
Capacitance Ratio C ₀ / C ₁	460 typical	425 - 800 typical
Insulation Resistance:	500 M Ω min. at 100 Vdc ±15 V	
Aging @ 25°C First year	±3 ppm max.	(32.768 KHz) & ± 5ppm (other)



AB38T

Dimensions: Inches (mm)



AB26T

Please see environmental, and mechanical specifications on page 68, Group 3. Marking, see page 77.

Note 1: Custom C_L upon request at 6 pF. Check with us for other C_L value.

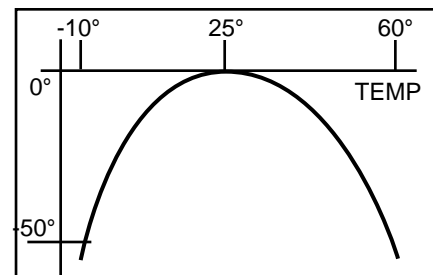
(*) Example: Stability at -20°C is: -0.035 x [25-(-20)]² = -71 ppm.

ORDERING OPTIONS

ABXXT - Frequency - CL - Temperature - Tolerance - Value Added - Packaging

38 or 26	Load cap. in pF or -S for Series	- T (Tape & Reel) - TY (Tray Packing)
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	-M = (SMT Formed Leads) found on page 72
	-1 for ± 10 ppm (*) -7 for ± 15 ppm	(*) 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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