

# AB26T-32.768KHZ Datasheet



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DiGi Electronics Part Number	AB26T-32.768KHZ-DG
Manufacturer	<a href="#">Abracon LLC</a>
Manufacturer Product Number	AB26T-32.768KHZ
Description	CRYSTAL 32.7680KHZ 12.5PF TH
Detailed Description	32.768 kHz ±20ppm Crystal 12.5pF 35 kOhms Cylindrical Can, Radial

This model AB26T-32.768KHZ is available at DiGi.Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

AB26T-32.768KHZ

Series:

AB26T

Type:

kHz Crystal (Tuning Fork)

Frequency Stability:

-

Load Capacitance:

12.5pF

Operating Mode:

Fundamental

Ratings:

-

Package / Case:

Cylindrical Can, Radial

Height - Seated (Max):

0.244" (6.20mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Frequency:

32.768 kHz

Frequency Tolerance:

±20ppm

ESR (Equivalent Series Resistance):

35 kOhms

Operating Temperature:

-10°C ~ 60°C

Mounting Type:

Through Hole

Size / Dimension:

0.083" Dia x 0.244" L (2.10mm x 6.20mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.60.0010

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# 32.768kHz WATCH CRYSTAL, 6.2 x 02.1MM CYLINDER PACKAGE



6.2 x 02.1 mm

**AB26T**



**RoHS**  
Compliant

➤ **FEATURES:**

- Watch frequency
- 32.768kHz standard frequency

➤ **APPLICATIONS:**

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

➤ **STANDARD SPECIFICATIONS:**

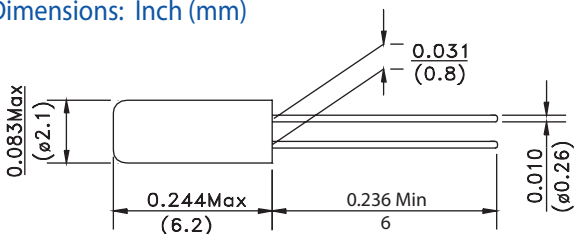
**PARAMETERS**

ABRACON P/N:	AB26T Series
Standard frequency:	<b>32.768kHz</b>
Additional frequencies available*	32.000kHz, 36.000kHz, 38.000kHz, 38.400kHz, 40.000kHz, 60.000kHz, 65.536kHz, 76.800kHz, 96.000kHz, 100.000kHz
Frequency range:	30kHz to 200kHz
Operating temperature:	-10°C to + 60°C (see option)
Storage temperature:	-40°C to + 85°C
Turn-over temperature:	+25°C ± 5°C
Frequency tolerance:	± 20 ppm max. for 32.768kHz (see option) ± 30 ppm max. for 30kHz ~ 200kHz (not including 32.768kHz)
Temperature Coefficient:	-0.034 ± 0.006 ppm/ T <sup>2</sup>
Equivalent series resistance:	35 kΩ max. (32.768kHz) 35 kΩ ~ 50 kΩ max. (30kHz ~ 200kHz)
Shunt capacitance C0:	0.8pF to 1.7pF typ.
Load capacitance CL:	12.5 pF typ. (see option)
Motional capacitance C1:	1 ~ 4 fF typ.
Capacitance ratio:	425 ~ 800 typ.
Quality factor:	70,000 typ. (32.768kHz)
Drive level:	1.0 μW max.
Aging @ 25° C first year:	± 3 ppm max. (32.768kHz) and ± 5 ppm max. (others)
Insulation resistance:	500 Mohms min. at 100Vdc ± 15V

\* For additional frequencies please contact Abracon.

➤ **OUTLINE DRAWING:**

Dimensions: Inch (mm)



➤ **OPTIONS & PART IDENTIFICATION:** (Left blank if standard)

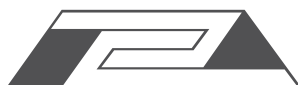
**AB26T- Frequency-  -**

**CL Option**

Please specify load cap. in pF (ex. 6pF)

**Temperature options**

E	0°C to + 70°C
B	-20°C to + 70°C



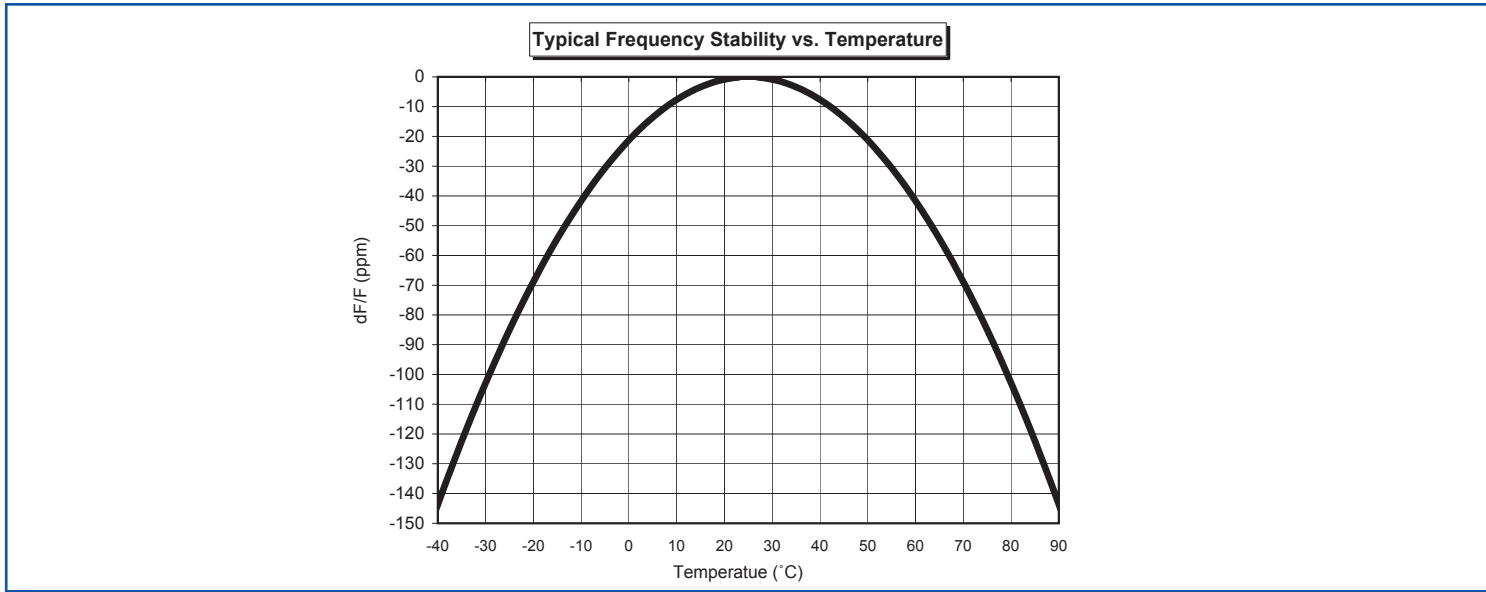


6.2 x 02.1 mm

AB26T



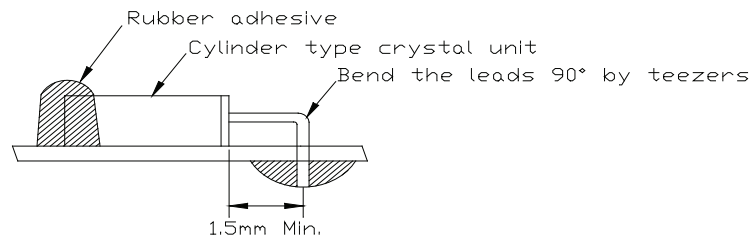
TUNING FORK CRYSTAL TEMPERATURE CURVE



HANDLING INSTRUCTIONS

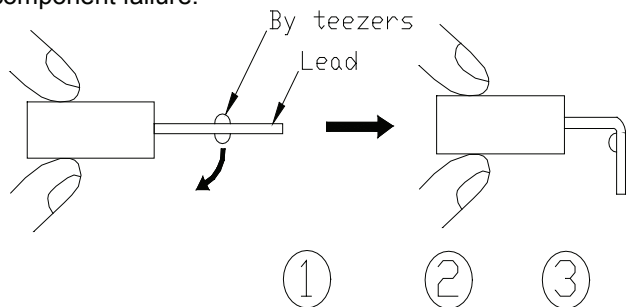
Mounting:

(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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