

32.768kHz CYLINDRICAL TUNING FORK CRYSTALS

Actual size



1.5 x 5.1 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	
Normal Frequency	32.768 kHz
Operating Temperature	-10°C to +60°C (see Options)
Turn-over Temperature	25°C to ±5°C
Storage Temperature	-40°C to +85°C
Frequency Tolerance	± 20 ppm max. (see options)
Frequency Stability	-0.035 x [25-T] ² / ±0.006ppm
Equivalent Series Resistance	40kΩ max.
Shunt Capacitance C0	1.0pF typical
Load Capacitance CL	8.0pF typical (see options)
Motional Capacitance C1	0.0025pF typical
Capacitance Ratio	400 typical
Quality Factor	80,000 typical
Drive Level	1μW max.
Aging at 25°C/year	± 3ppm max.
Insulation Resistance	500 MΩ min. at 100 Vdc ±15V

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

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

NOTES:

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

OPTIONS AND PART IDENTIFICATION (Left blank if standard):

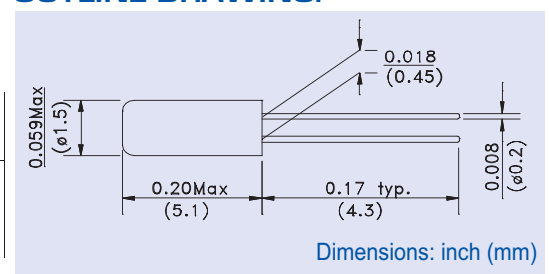
AB15T - 32.768kHz - CL - Temperature - Tolerance

Load cap. in pF
or
-S for Series

E for -20°C to +70°C
F for -30°C to +70°C
N for -30°C to +85°C
L for -40°C to +85°C

-1 for ± 10ppm*
-7 for ± 15ppm
* Please call for availability.

OUTLINE DRAWING:



TYPICAL FREQ -vs- TEMP CURVE:

