LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL

AB38T

8.3 x ø3.2mm

Pb RoHS Compliant

FEATURES:

- Commercial grade 32.768kHz crystal

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency	-----	32.768	-----	kHz	
Operating Temperature	-10	-----	+60	ºC	See options
Turnover Temperature	+20	+25	+30	ºC	
Storage Temperature	-40	-----	+85	ºC	
Frequency Tolerance @+25ºC	-20	-----	+20	ppm	See options
Frequency Coefficient (ß)		-0.035±0.01		ppm/°C^2	
Equivalent series resistance (R1)	-----	-----	30	kΩ	
Shunt capacitance (C0)	-----	1.60	-----	pF	
Motional capacitance (C1)	-----	0.0035	-----	pF	
Capacitance ratio (C0/C1)	-----	460	-----	-----	
Load capacitance (CL)	-----	12.5	-----	pF	See options
Drive Level	-----	-----	1	µW	
Quality Factor	-----	90,000	-----		
Aging @25ºC±3ºC (First year)	-3		+3	ppm	
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc ± 15V

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

AB38T-32.768kHz - ☐ - ☐ - ☐

Load Capacitance (pF)
Blank: 12.5pF
Please specify custom load cap. in pF (ex. 6 for 6pF)

Operating Temperature
E: 0 to +70 ºC
B: -20 to +70 ºC

Freq. Tolerance
1: ± 10 ppm *
7: ± 15 ppm

* Please contact Abracon for availability

REVISED: 1.4.2021

ABRACON

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit: www.abracon.com

ABRACON IS ISO9001-2015 CERTIFIED

LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL

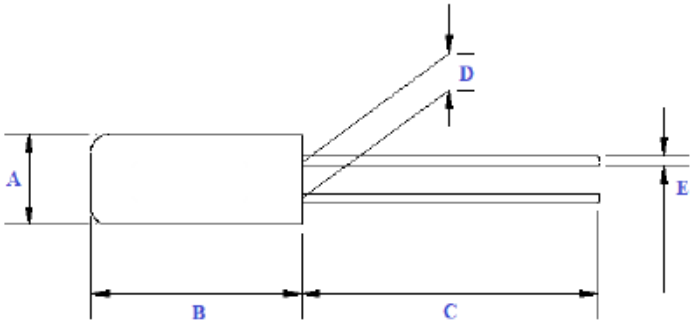
AB38T

RoHS Compliant

AB38T

8.3 x ø3.2mm

OUTLINE DRAWING:



Dimension Table	
A	Ø 3.2 MAX
B	8.3 MAX
C	8.0 MIN
D	0.8 ± 0.3
E	Ø 0.34 ± 0.2

Dimensions: mm

Soldering

(1) Do not apply excessive soldering heat – Recommended Maximum Temperature is 380˚C using a hand soldering iron for a Maximum Duration of 3 seconds.

(2) When dip soldering/wave soldering, the soldering condition is to be 260˚C Maximum Temperature for a Maximum Duration of 10seconds. Beware not to heat the whole crystal unit in the dip mounting process. It is recommended that the crystal be mounted in an upright position. (To prevent heat conduction directly to the body of a crystal unit.)

(3) When soldering, do not apply the heat to the case body of the component as exposure to soldering heat would deteriorate the performance of the product.

Packaging: 1,000pcs/bag, 10,000pcs/box

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.

ABRACON

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit: www.abracon.com

ABRACON IS ISO9001-2015 CERTIFIED

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

AB38T-32.768KHZ AB38T-32.768KHZ-B7 AB38T-32.768KHZ-1 AB38T-32.768KHZ-6 AB38T-32.768KHZ-D7 AB38T-32.768KHZ-B7-T AB38T-32.768KHZ-6-1 AB38T-32.768KHZ-20-B-1 AB38T-32.768KHZ-B AB38T-32.768KHZ-B-1