# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



### LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL

#### AB38T



AB38T

#### **FEATURES:**

• Commercial grade 32.768kHz crystal

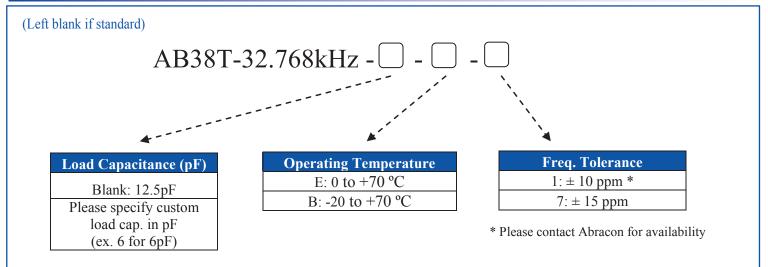
#### > APPLICATIONS:

- 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	°C	See options
Turnover Temperature	+20	+25	+30	°C	
Storage Temperature	-40		+85	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Frequency Coefficient (β)	-0.040	-0.034	-0.028	ppm/T <sup>2</sup>	
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 @25°C±3°C (First year)	-3		+3	ppm	32.768kHz
	-5		+5		Other frequencies
Insulation Resistance	500			MΩ	( <i>a</i> ) $100$ Vdc $\pm 15$ V

#### **OPTIONS & PART IDENTIFICATION:**





2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 12.29.14** Ph. 949.546.8000 | Fax. 949.546.8001 Visit www.abracon.com for Terms and Conditions of Sale

# LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL AB38T $\bigcirc$ Compliant $\bigcirc$ Regulation of the system of the

#### 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 Corporation'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-dependant 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 Corporation is required. Please contact Abracon Corporation for more information.



