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!



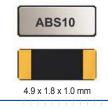
Contact us

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



32.768 kHz S MD LOW PR OFILE CRYSTA L

ABS10



ABS10 is not recommended for new designs. Please consider our reduced size ABS07 or ABS06.

FEATURES:

- Low frequency in small size SMD
- 1.0mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- \bullet Extended temperature -40°C to +85°C for industrial applications

> STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABS10 Series
Nominal Frequency	32.768 kHz
Operating Temperature	-40°C to + 85°C
Turn-over Temperature	+25°C to ±5°C
Storage Temperature	-55°C to +125°C
Frequency Tolerance	±20 ppm max. (see option)
Temperature Coefficient (ß)	- 0.034±0.006 ppm/T ²
Equivalent Series Resistance	70 kohms max.
Load Capacitance CL	12.5 pF (see option)
Drive Level	1.0 μW max.
Aging (first year) 25°C first year	± 5 ppm max.
Insulation Resistance	500 MΩ with 100 Vdc ±15V
Shunt capacitance Co	1.0pF typ.
Motional capacitance C1	2.0fF typ.

> APPLICATIONS:

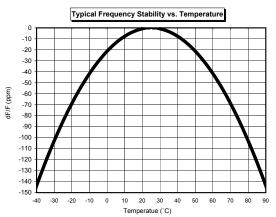
Wide range in communication & measuring equipment

RoHS

Compliant

- Commercial & Industrial applications
- Wireless communications
- PDA and Palm Pilots

TUNING FORK CRYSTAL TEMPERATURE CURVE



OPTIONS AND PART IDENTIFICATION: (Left blank if standard) ABS10 - 32.768kHz -4---Load Capacitance Freq. Tolerance Packaging Blank: 12.5pF Blank: ± 20 ppm Blank: Bulk 9: 9pF 1: ± 10 ppm T: Tape & Reel 4: ± 30 ppm 7: 7pF *Contact ABRACON for

non-standard load capacitances.

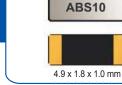
ABRACON IS

ISO9001:2008 CERTIFIED



32.768kHz SMD LOW PROFILE CRYSTAL

ABS10

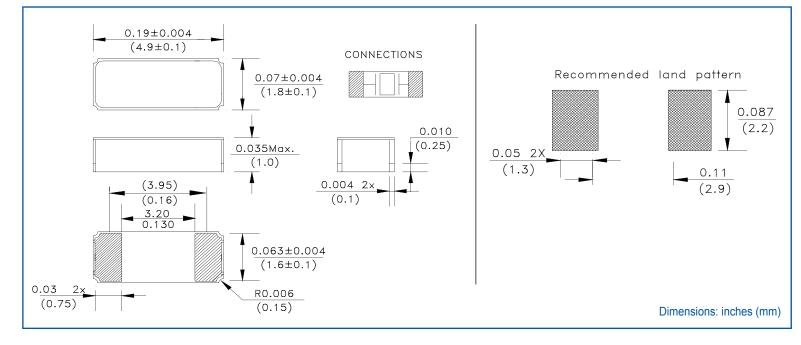


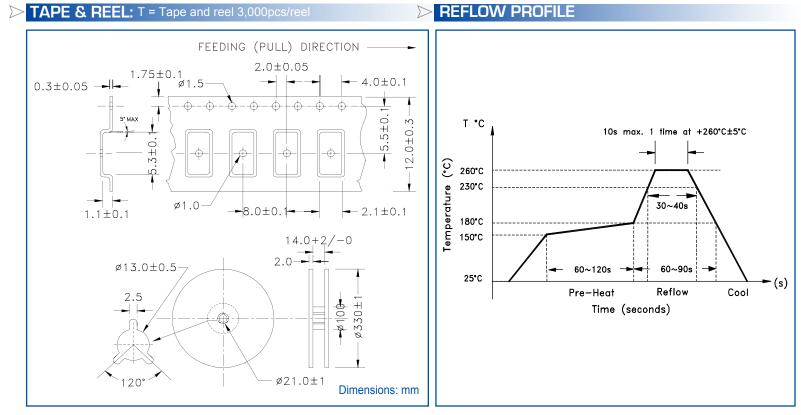
RoHS

Compliant

Pb

OUTLINE DRAWING:





Need a test socket for the ABS10 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here: P/N AXS-4918-02-11**

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