

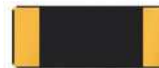
32.768kHz SMD LOW PROFILE CRYSTAL

ABS10



RoHS
Compliant

ABS10



4.9 x 1.8 x 1.0 mm

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
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

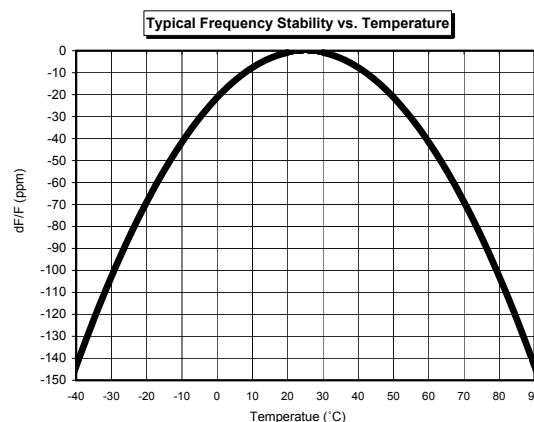
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots

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 (β)	- 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 μ W max.
Aging (first year) 25°C first year	± 5 ppm max.
Insulation Resistance	500 M Ω with 100 Vdc ±15V
Shunt capacitance Co	1.0pF typ.
Motional capacitance C1	2.0fF typ.

TUNING FORK CRYSTAL TEMPERATURE CURVE



OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABS10 - 32.768kHz - - -

Load Capacitance
Blank: 12.5pF
9: 9pF
7: 7pF

*Contact ABRACON for non-standard load capacitances.

Freq. Tolerance
Blank: ± 20 ppm
1: ± 10 ppm
4: ± 30 ppm

Packaging
Blank: Bulk
T: Tape & Reel

ABRACON IS
ISO9001:2008
CERTIFIED



ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 07.30.10**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

