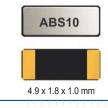
# 32.768 kHz S MD LOW PR OFILE CRYSTA L

## 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
- 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 <sup>2</sup>
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:

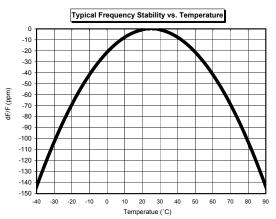
Wide range in communication & measuring equipment

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.





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# 32.768kHz SMD LOW PROFILE CRYSTAL

ABS10

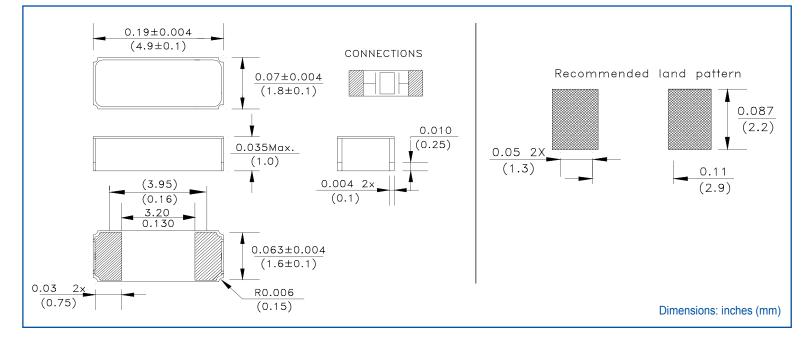


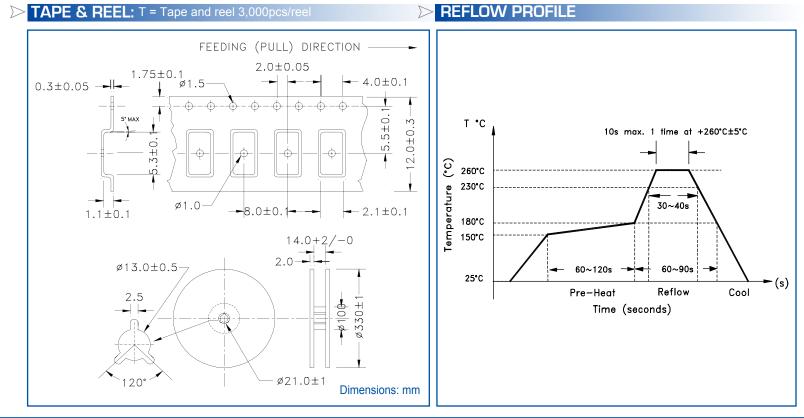
Pb

4.9 x 1.8 x 1.0 mm

ABS10

### **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** 

**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.

ABRACON

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