

32.768kHz SMD LOW PROFILE CRYSTAL

ABS10



4.9 x 1.8 x 1.0 mm

ABS10



RoHS
Compliant

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:

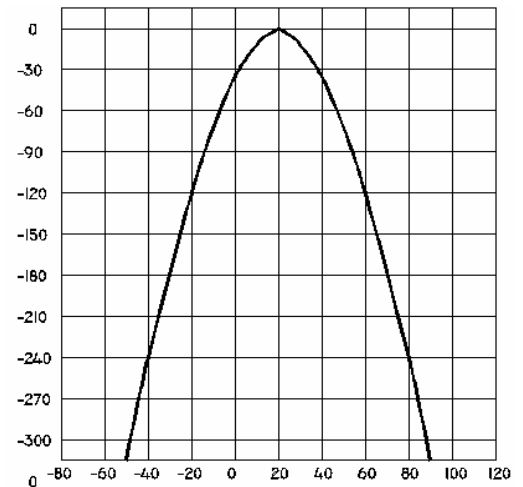
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ABS10
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	± 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		Freq. Tolerance		Packaging	
Blank	12.5pF	1	± 10 ppm	Blank	Bulk
9	9pF	4	± 30 ppm	T	Tape and Reel
7	7pF				

*Contact ABRACON for non-standard load capacitance

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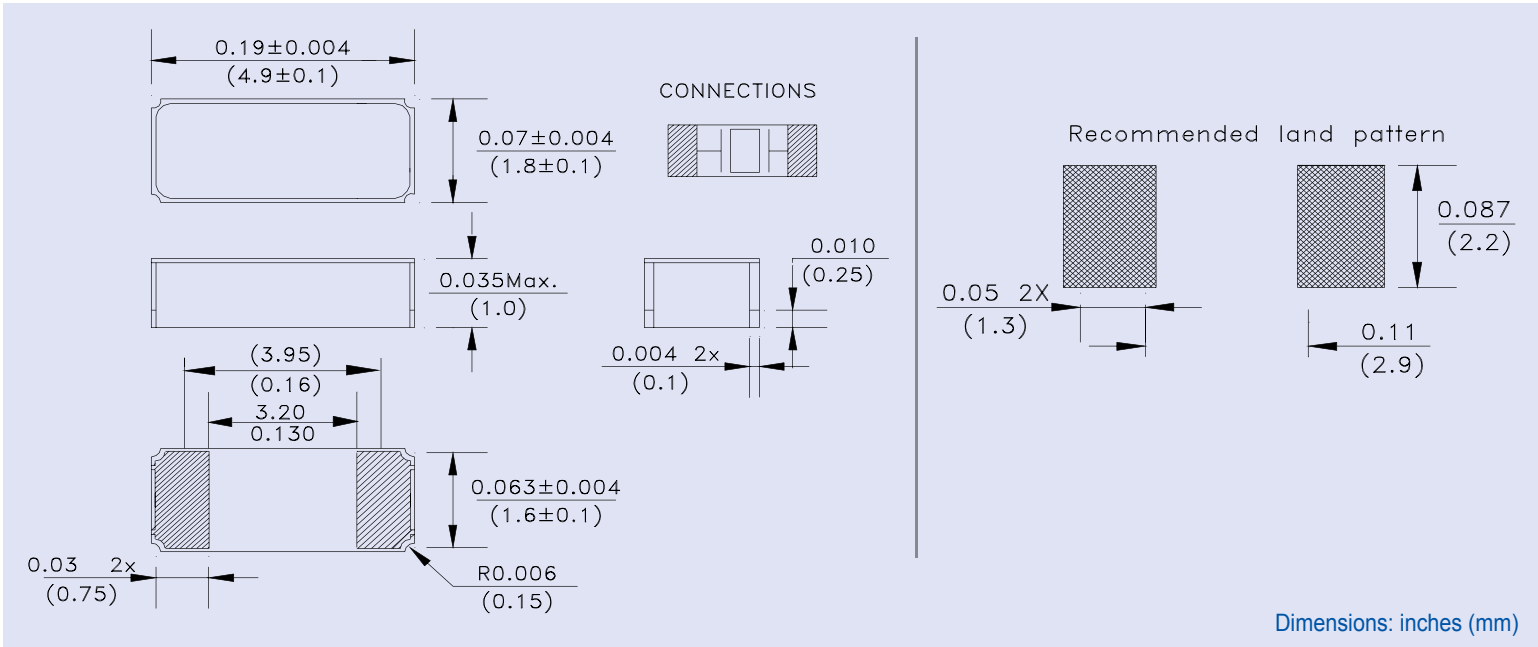
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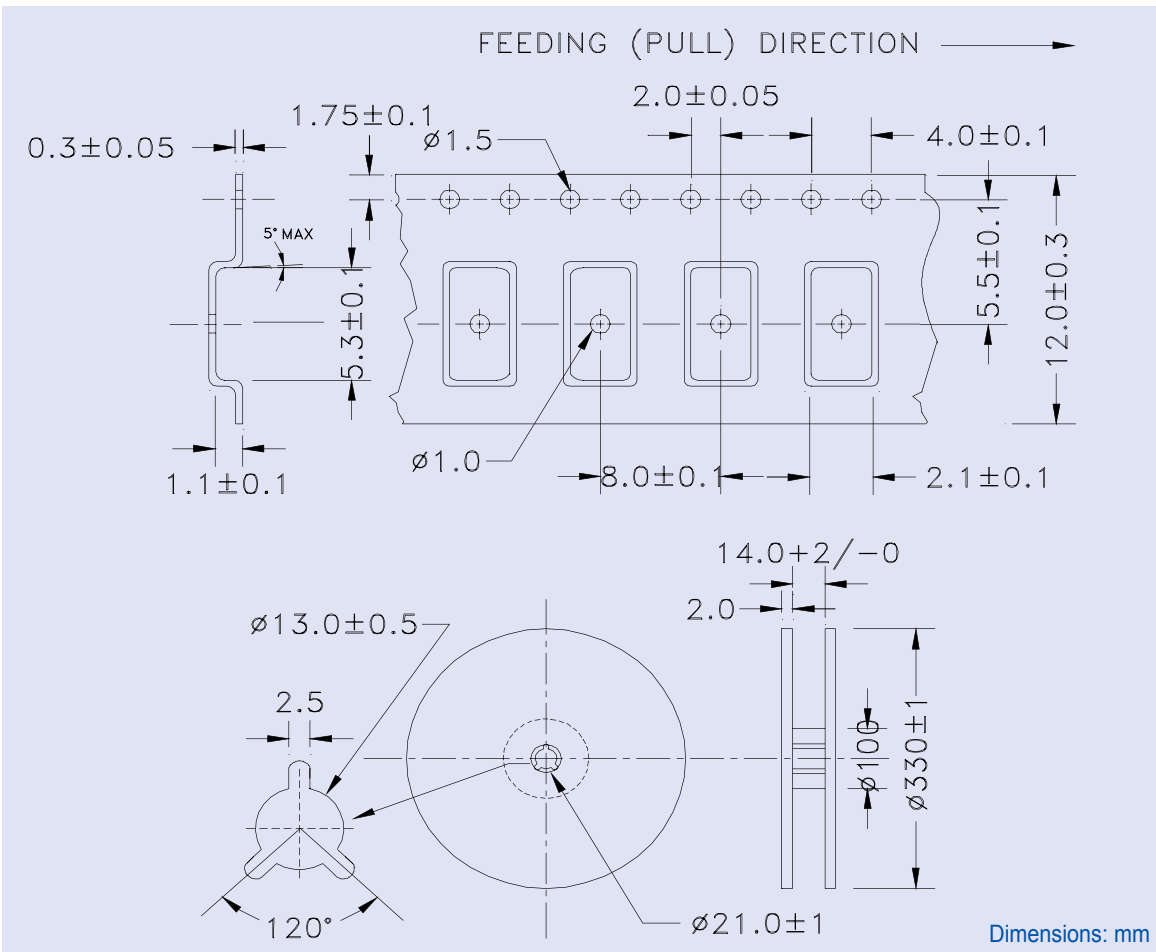
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OUTLINE DRAWING:



Dimensions: inches (mm)

TAPE & REEL: T = Tape and reel 3,000pcs/reel



Dimensions: mm

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 10.27.08**
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