

32.768kHz SMD LOW PROFILE CRYSTAL

ABS10



RoHS
Compliant

ABS10



4.9 x 1.8 x 1.0 mm

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:

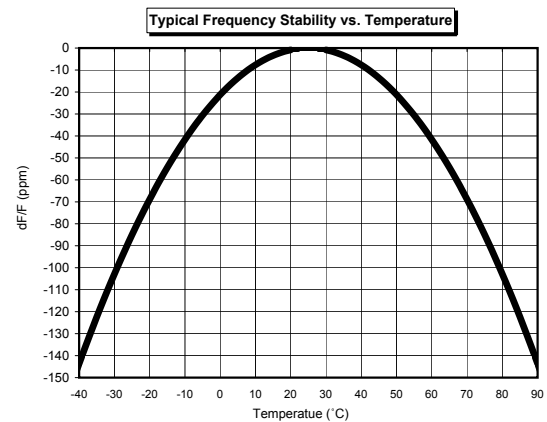
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots

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 |



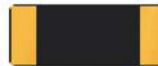
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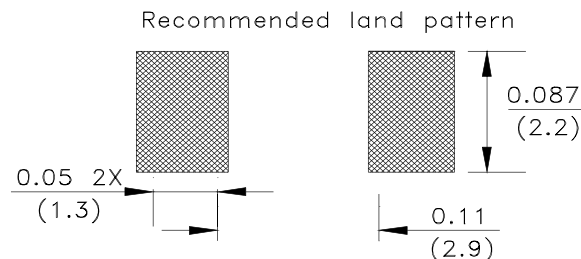
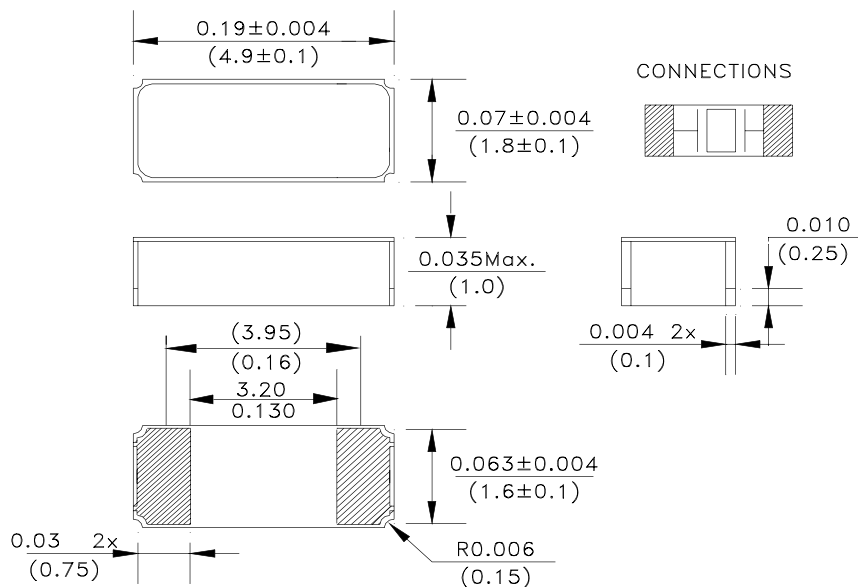
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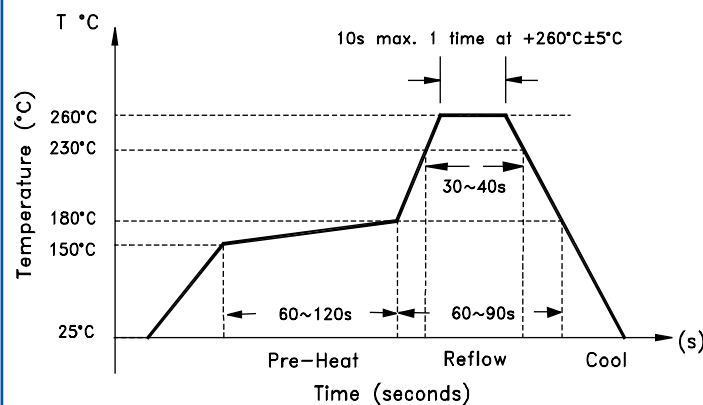
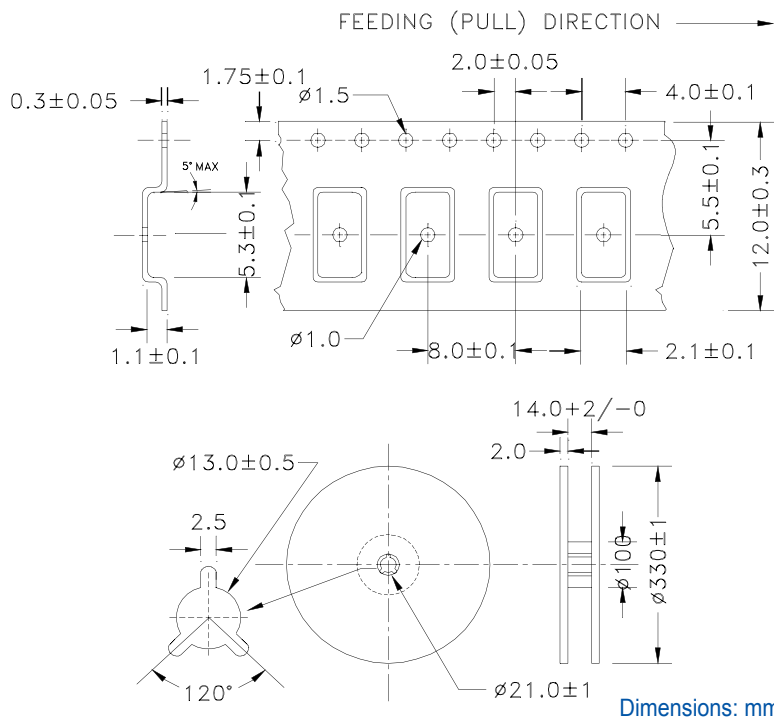
OUTLINE DRAWING:



Dimensions: inches (mm)

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

REFLOW PROFILE



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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ABRACON IS
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