

SMD LOW PROFILE CRYSTAL



ABS07-166-32.768KHZ-T



3.2 x 1.5 x 0.9mm
RoHS/RoHS II Compliant

MSL = N/A: NOT APPLICABLE

FEATURES

- Low frequency in small size SMD
- 0.9mm height ideal for high density circuit boards
- Seam sealed ceramic package offers excellent environmental & heat resistance

APPLICATIONS

- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Wireless communications
- PDA and Smartphone

KEY ELECTRICAL SPECIFICATIONS

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|-----------------------------------|-------------|----------|---------|--------------------|----------------|
| Frequency Range | 32.768 | | | kHz | |
| Operation Mode | Tuning Fork | | | | |
| Operating Temperature | -40 | | +85 | °C | |
| Storage Temperature | -55 | | +125 | °C | |
| Frequency Tolerance @ +25°C | -10 | | +10 | ppm | |
| Temperature Coefficient: | -0.040 | -0.036 | | ppm/T ² | |
| Turn-over temperature: | +20 | +25 | +30 | °C | |
| Equivalent series resistance (R1) | | | 70 | kΩ | |
| Shunt capacitance (C0) | | 0.9~ 1.2 | | pF | |
| Load capacitance (CL) | 7.0 | | | pF | |
| Drive Level | | 0.1 | 0.5 | μW | |
| Q Value | 10000 | 30000 | | | |
| Aging@ 25°C±3°C | -3 | | 3 | ppm | First Year |
| Insulation Resistance | 500 | | | MΩ | @ 100Vdc ± 15V |

PART IDENTIFICATION


ABS07-166-32.768 KHz-

| Packaging |
|----------------------------------|
| Blank: Bulk |
| T: Tape & Reel (3000pcs/reel) |

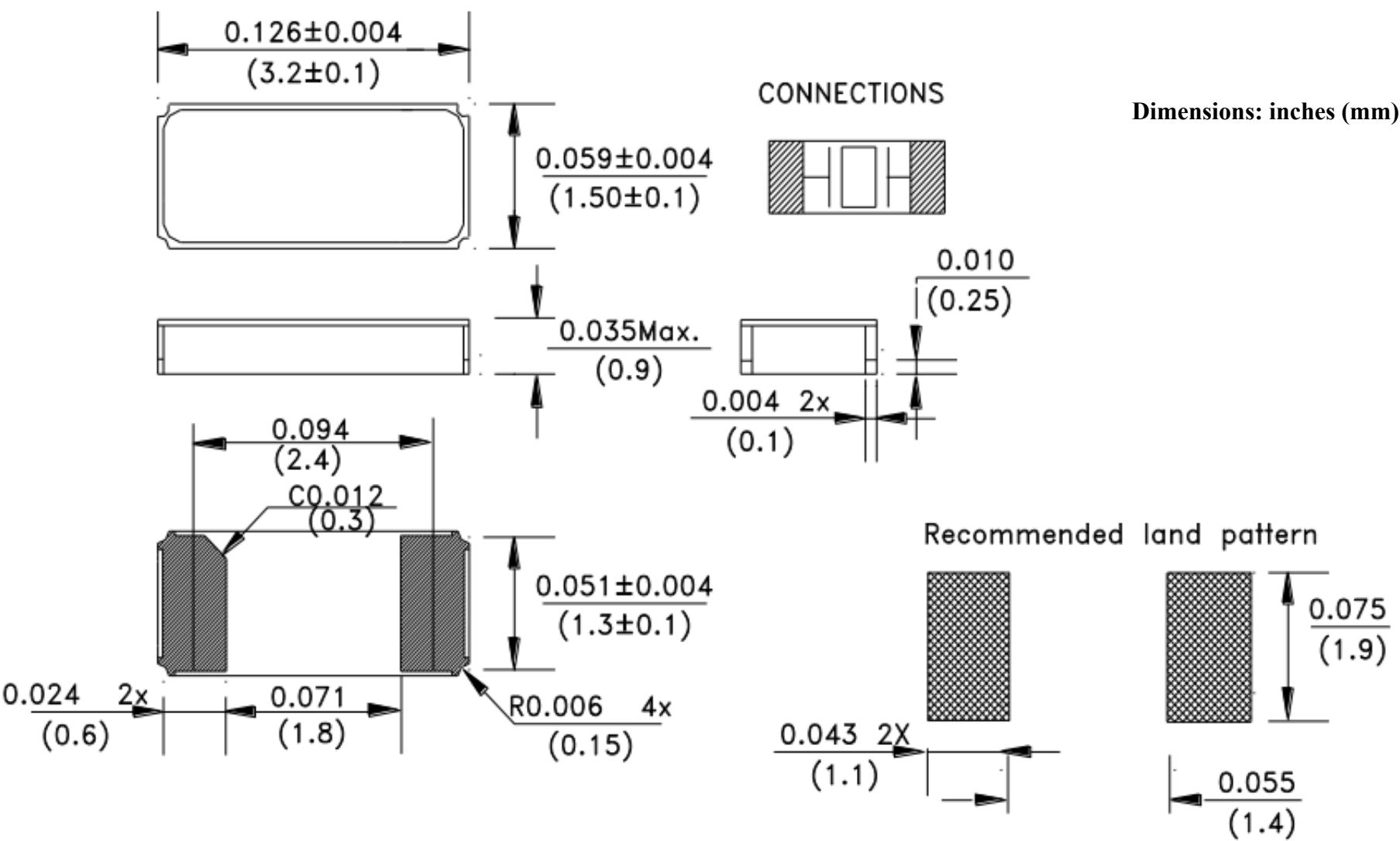
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MECHANICAL DIMENSIONS



SEALING METHOD = SEAM SEALING

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ABS07

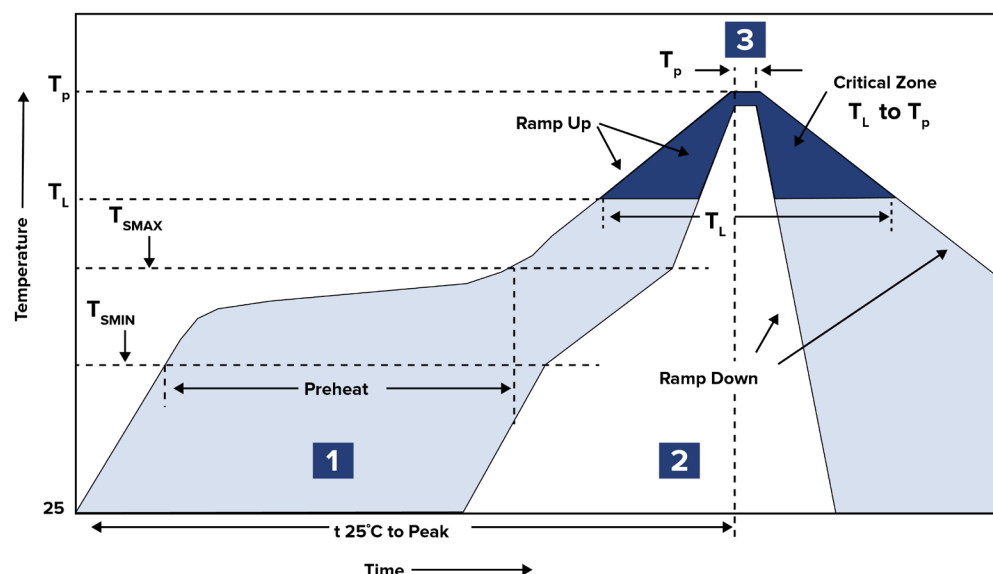
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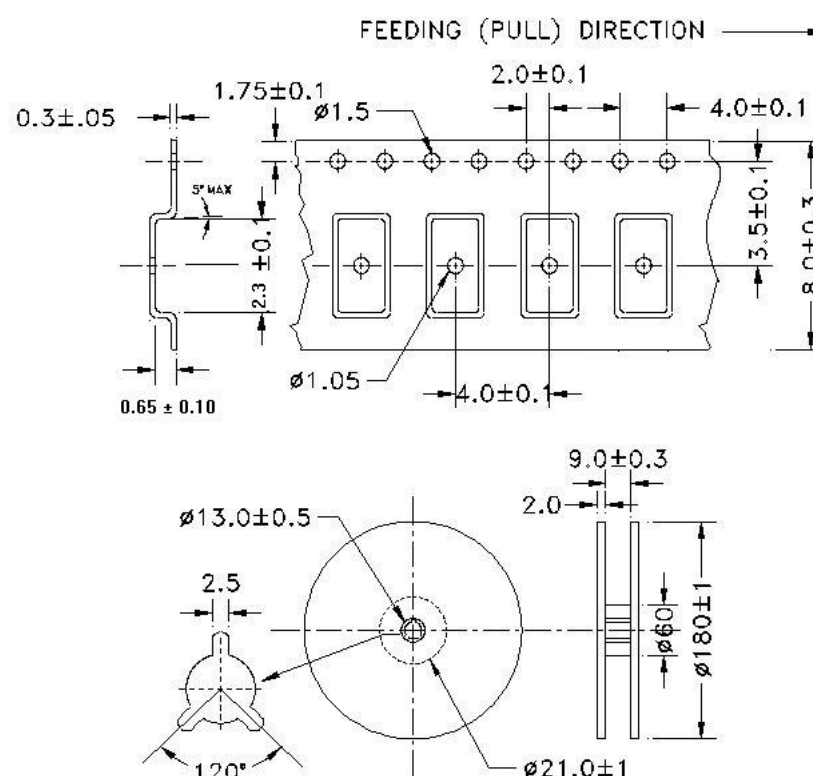
REFLOW PROFILE



| Zone | Description | Temperature | Time |
|------|-------------|---|---------------|
| 1 | Preheat | $T_{SMIN} \sim T_{SMAX}$ 120°C ~ 180°C | 60 ~ 120 sec. |
| 2 | Reflow | T_L 230°C | 55 sec. MAX. |
| 3 | Peak Heat | T_p 260°C | 10 sec. MAX. |

PACKAGING:

T: Tape and reel (3,000 pcs/reel)



Dimensions: mm

Mouser Electronics

Authorized Distributor

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[ABRACON:](#)

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