

# 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

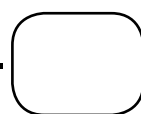
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Wireless communications
- PDA and Smartphone

## 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 <sup>2</sup>	
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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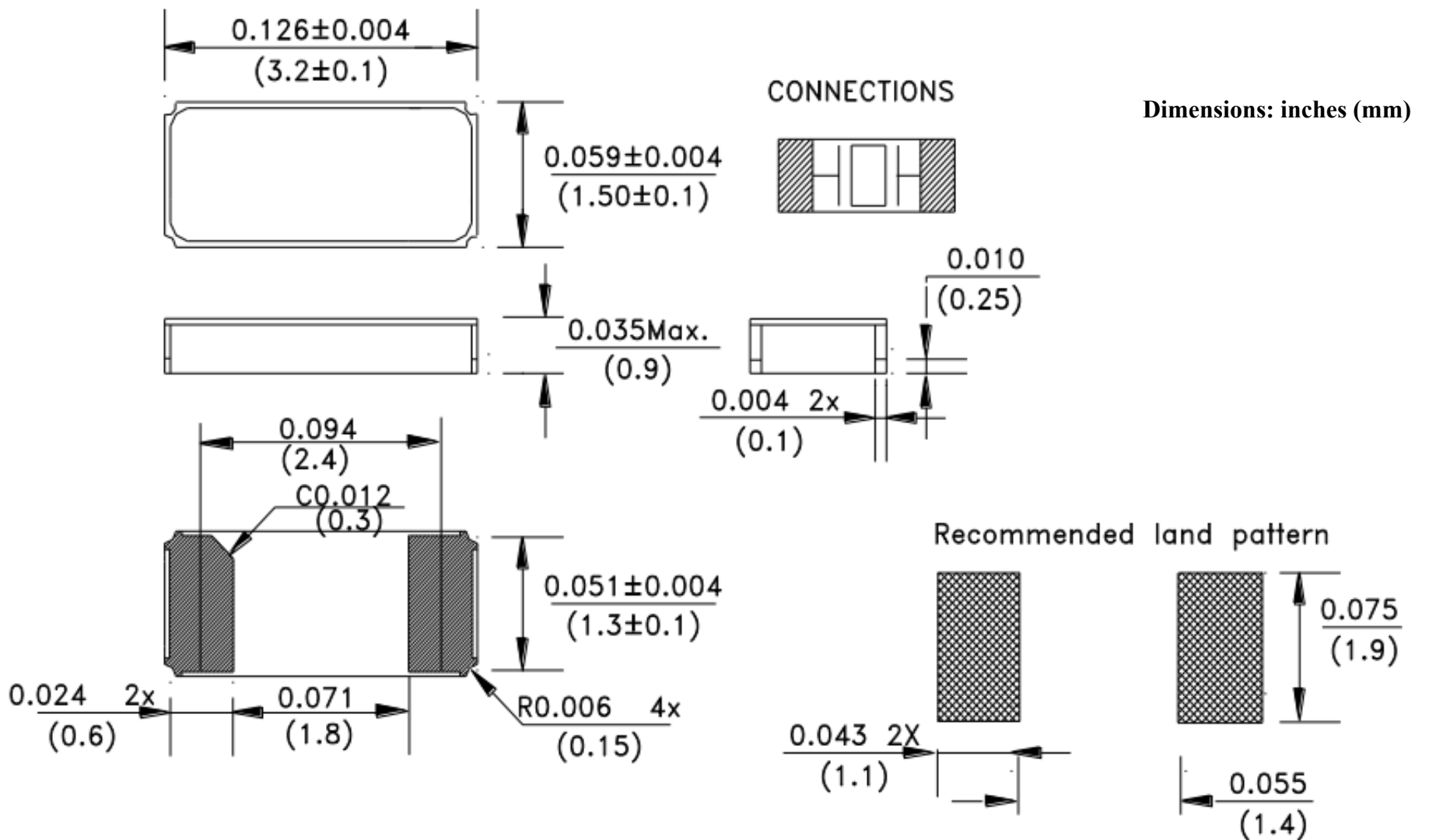
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## MECHANICAL DIMENSIONS



SEALING METHOD = SEAM SEALING

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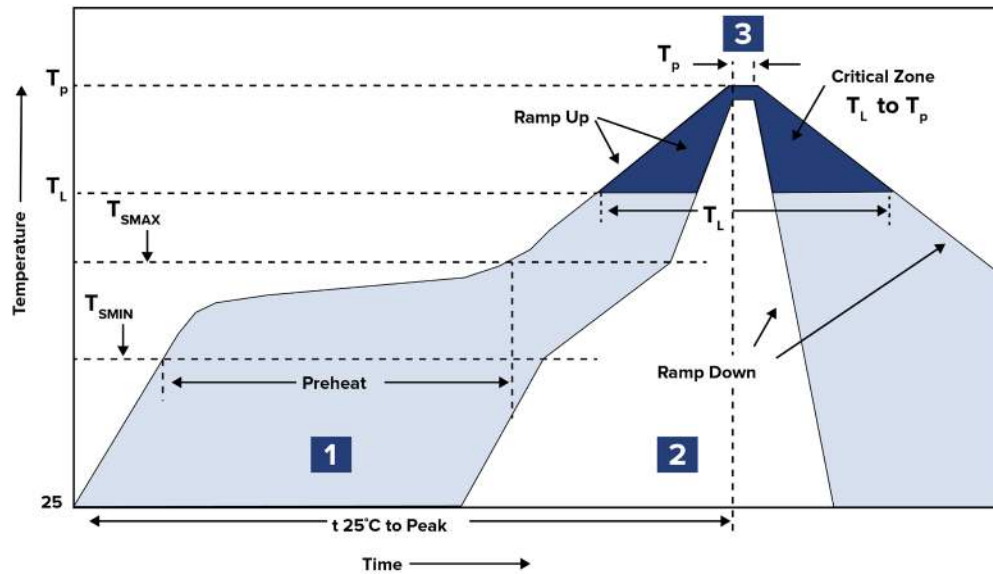
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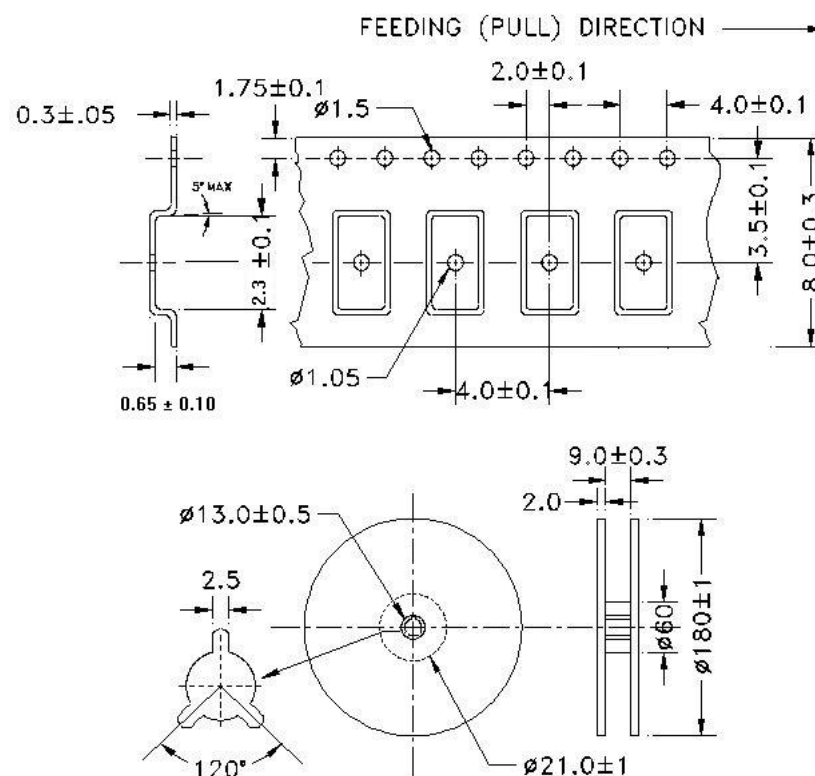
## REFLOW PROFILE



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