THE DATASHEET OF

ABS07-166-32.768KHZ-T

www.win-source.net 0086-755-83957316

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	ºC	
Storage Temperature	-55		+125	ºC	
Frequency Tolerance @ +25°C	-10		+10	ppm	
Temperature Coefficient:	-0.040	-0.036		ppm/T²	
Turn-over temperature:	+20	+25	+30	ºC	
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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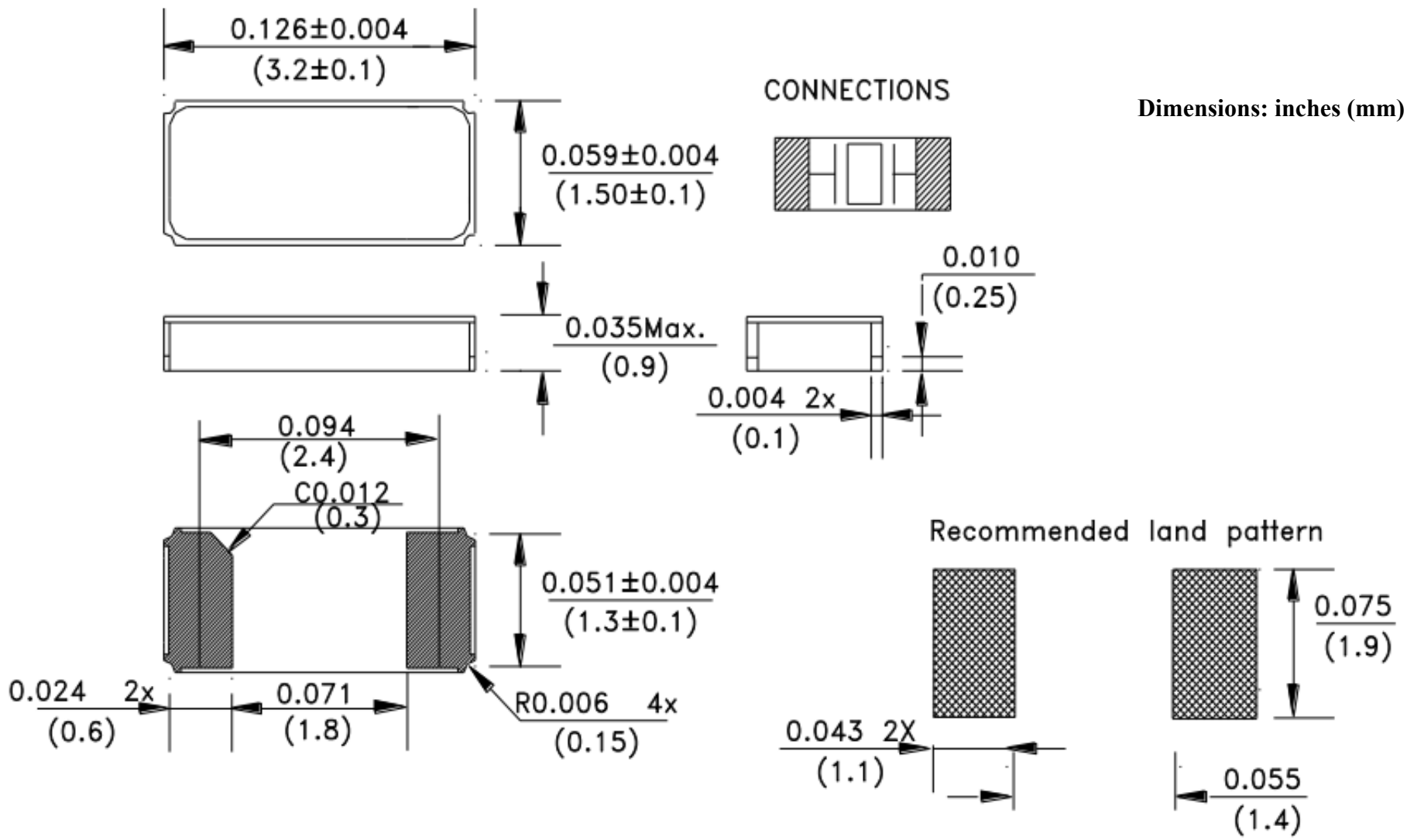
MECHANICAL DIMENSIONS

Dimensions: inches (mm)



SEALING METHOD = SEAM SEALING

ABRACON LLC
The Power of Linking Together

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 03.19.2018

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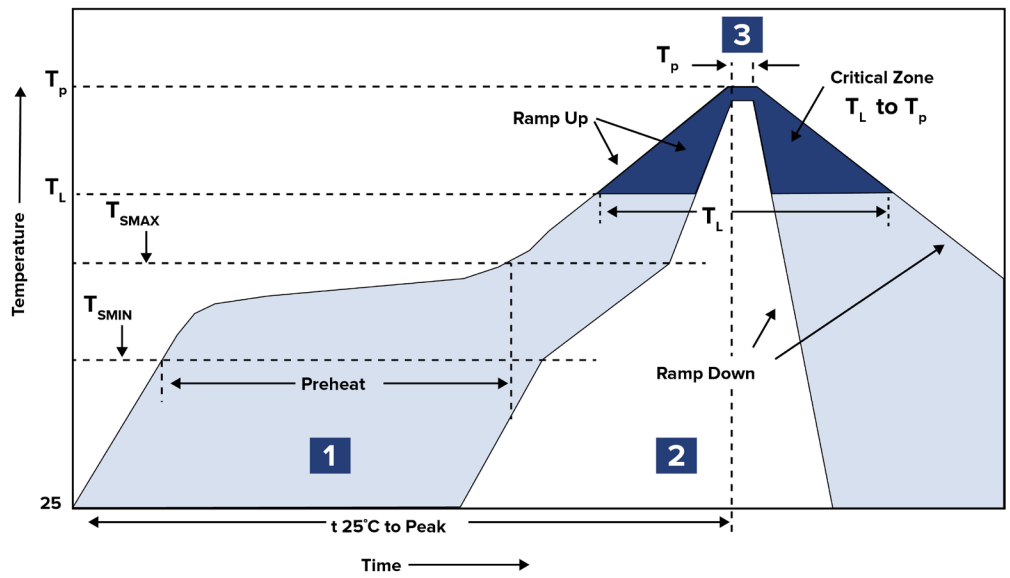
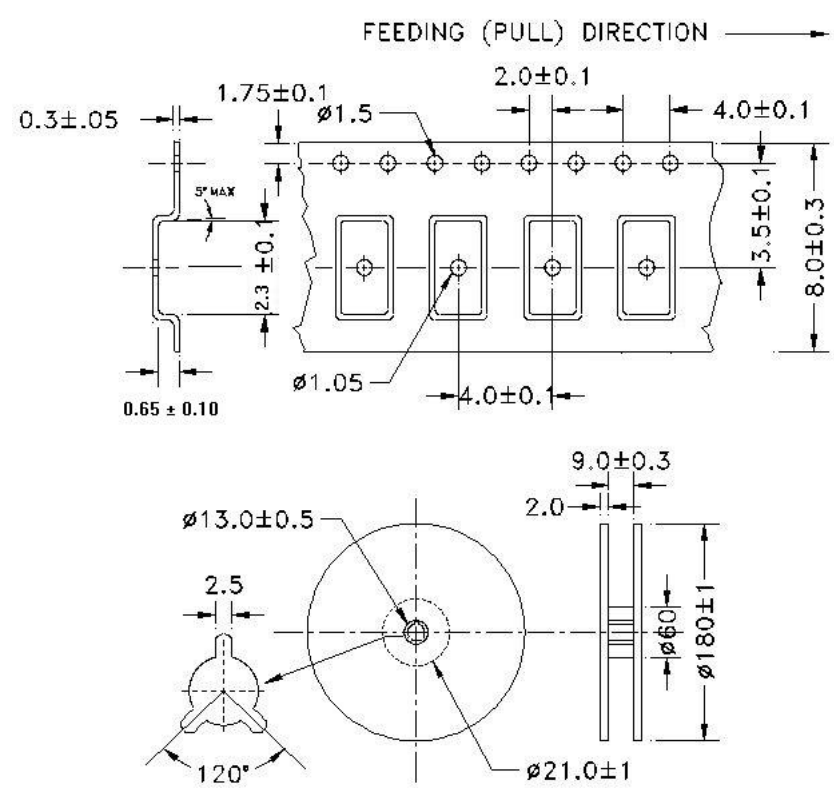
REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat	T_{SMIN} ~ 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

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- Abracon LLC Information

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- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management