

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)

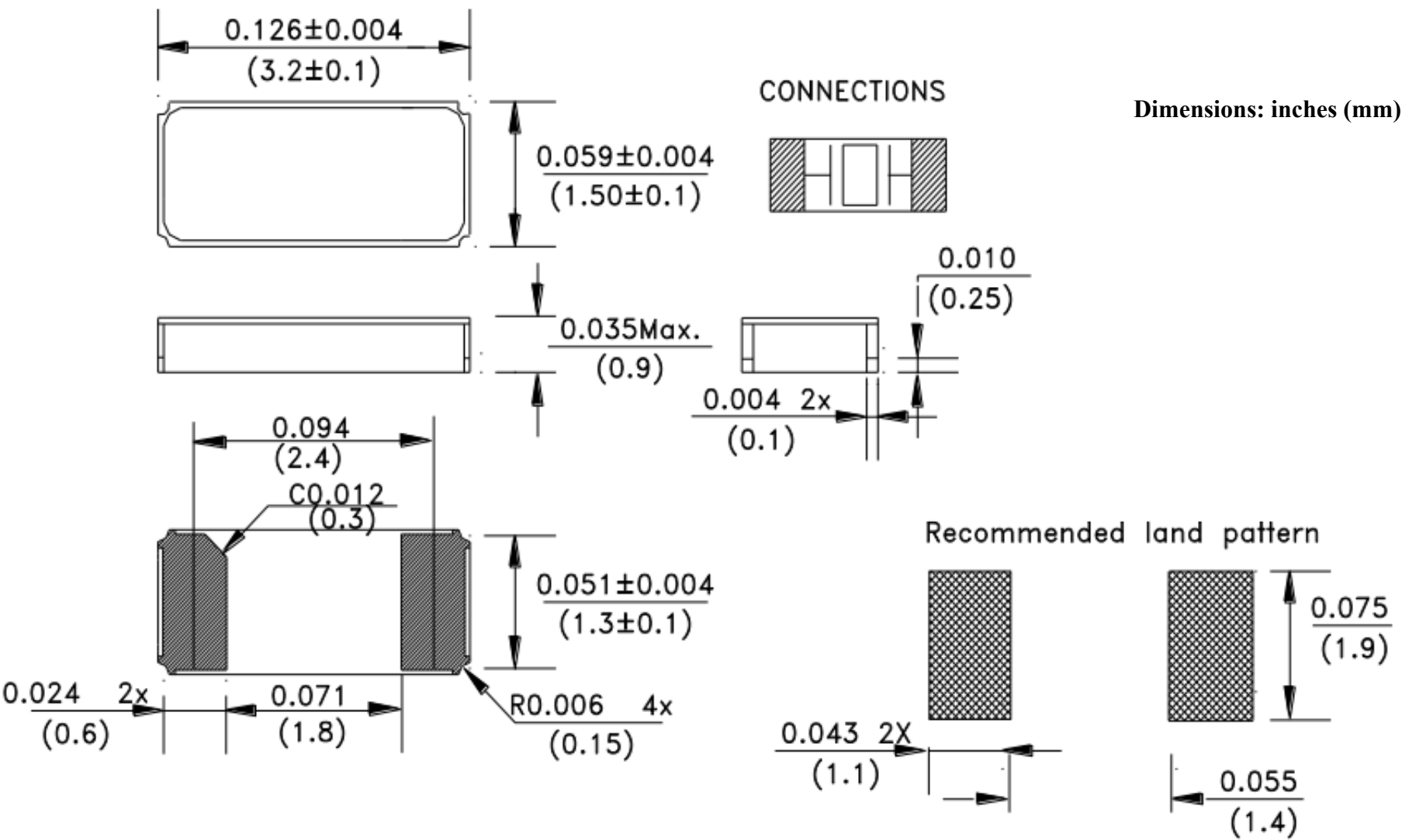
SMD LOW PROFILE CRYSTAL



ABS07-166-32.768KHZ-T

 **3.2 x 1.5 x 0.9mm**
RoHS/RoHS II Compliant
MSL = N/A: NOT APPLICABLE

MECHANICAL DIMENSIONS



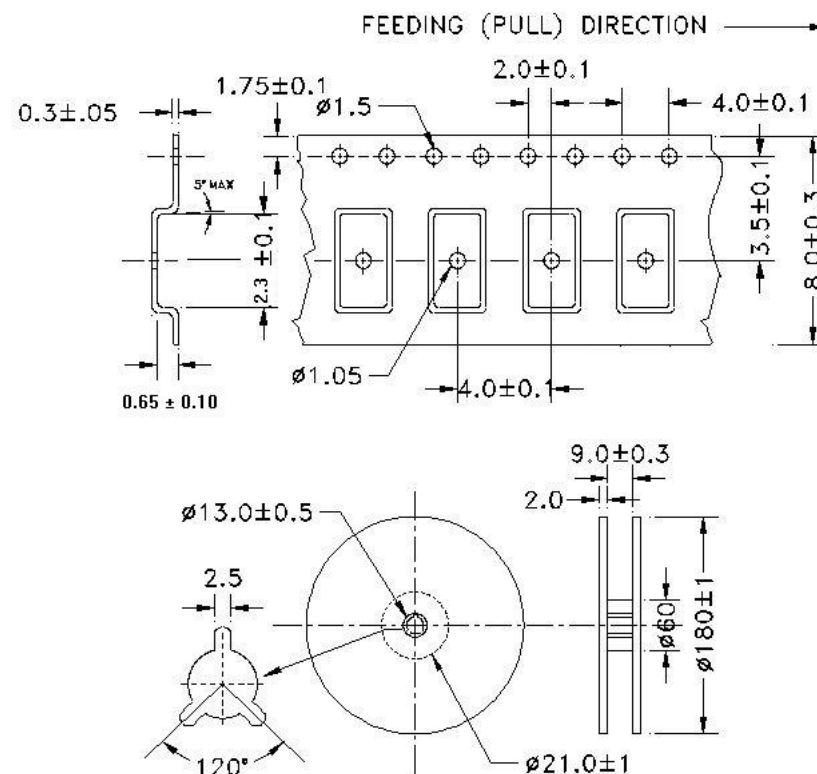
SEALING METHOD = SEAM SEALING



MSL = N/A: NOT APPLICABLE

Zone	Description	Temperature	Time
1	Preheat	$T_{\text{SMIN}} \sim T_{\text{SMAX}}$ $120^{\circ}\text{C} \sim 180^{\circ}\text{C}$	60 ~ 120 sec.
2	Reflow	T_{L} 230°C	55 sec. MAX.
3	Peak Heat	T_{P} 260°C	10 sec. MAX.

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



Dimensions: mm