

# 32.768kHz SMD LOW PROFILE CRYSTAL

ABS07



3.2 x 1.5 x 0.9 mm

**ABS07**



**RoHS**  
Compliant

## 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
- Extended temperature -40°C to +85°C for industrial applications

## APPLICATIONS:

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

## STANDARD SPECIFICATIONS

### Key Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature	-40	-----	+85	°C	
Storage Temperature	-55	-----	+125	°C	
Frequency Tolerance @+25°C	-20	-----	+20	ppm	See options Tested at 1.0uW
Temperature Coefficient:	-0.040	-0.034	-0.028	ppm/T <sup>2</sup>	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance (R1)	-----	-----	70	kΩ	
Shunt capacitance (C0)	-----	1.50	-----	pF	Measured by S&A 250B
Load capacitance (CL)	-----	12.5	-----	pF	See options
Drive Level	-----	0.5	1.0	μW	
Q value	13000	30000	-----	-----	
Aging@25°C±3°C	-3	-----	3	ppm	First year
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc ± 15V

## OPTIONS AND PART IDENTIFICATION (left blank if standard)

ABS07 – 32.768 kHz -  -  -

Load Capacitance
Blank: 12.5pF
9: 9pF
7: 7pF

Frequency Tolerance
Blank: ±20ppm
1: ±10ppm
4: ±30ppm

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

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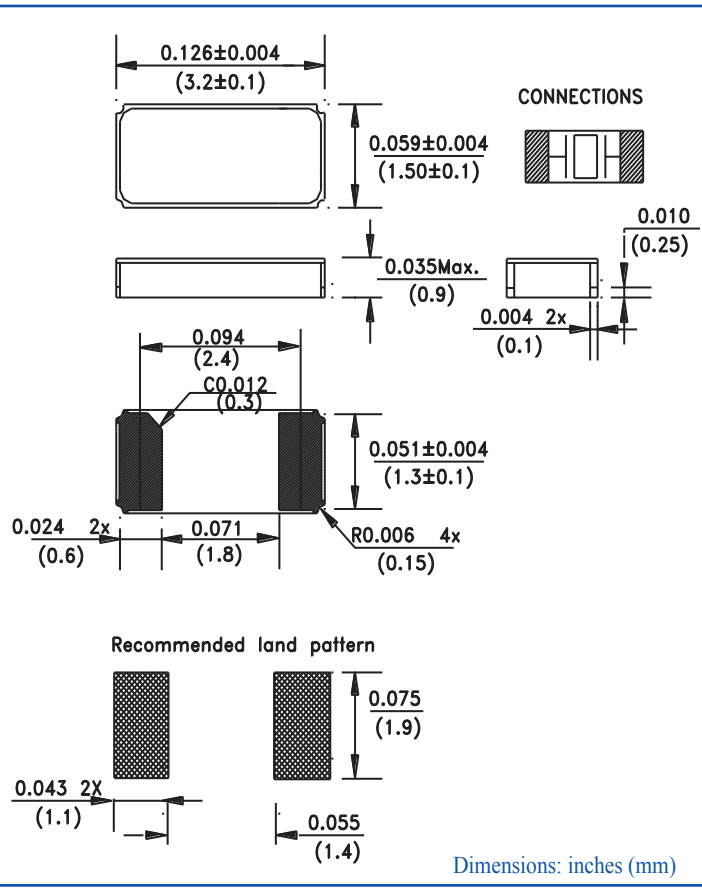
3.2 x 1.5 x 0.9 mm

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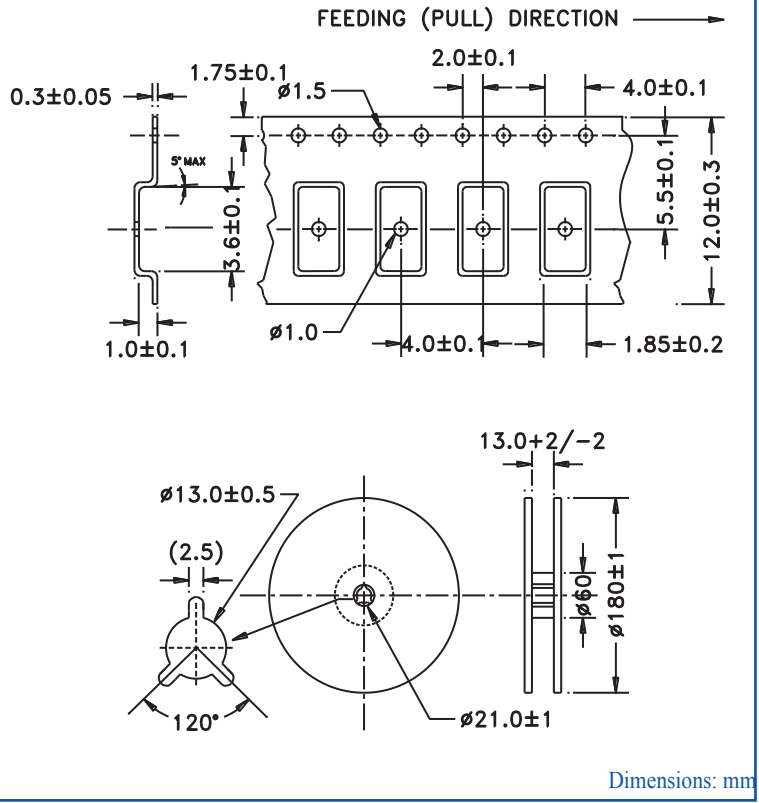
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## OUTLINE DIMENSIONS

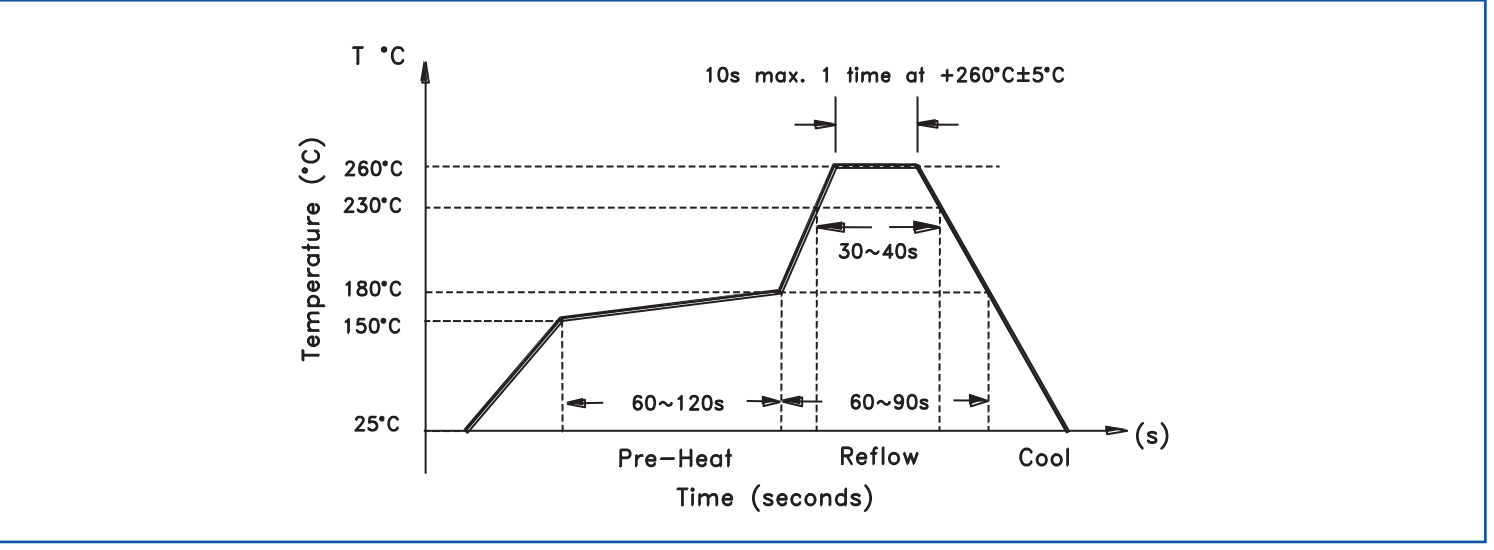


## TAPE & REEL

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



## REFLOW PROFILE



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