32.768kHz SMD LOW PROFILE CRYSTAL



ABS07

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive -MSL = N/A: Not Applicable

Pb RoHS/RoHS II

3.2 x 1.5 x 0.9 mm

FEATURES:

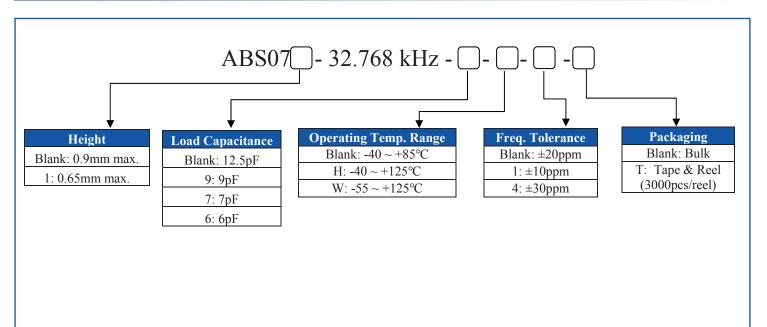
- Low frequency in small size SMD
- 0.9mm height ideal for high density circuit boards
- Seam sealed ceramic package offers excellent environmental & heat resistance
- Extended temperature -40° C to $+85^{\circ}$ C for industrial applications

STANDARD SPECIFICATIONS

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

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexura	Flexural Mode (Tuning Fork)			
Operating Temperature	-40		+85	°C	See options
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
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)		12.5		pF	See options
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	(<i>a</i>) 100 Vdc ± 15 V

OPTIONS AND PART IDENTIFICATION (left blank if standard)





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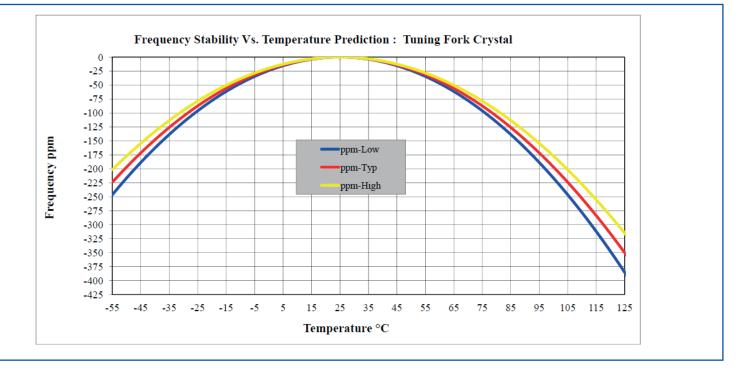


3.2 x 1.5 x 0.9 mm

RoHS/RoHS II

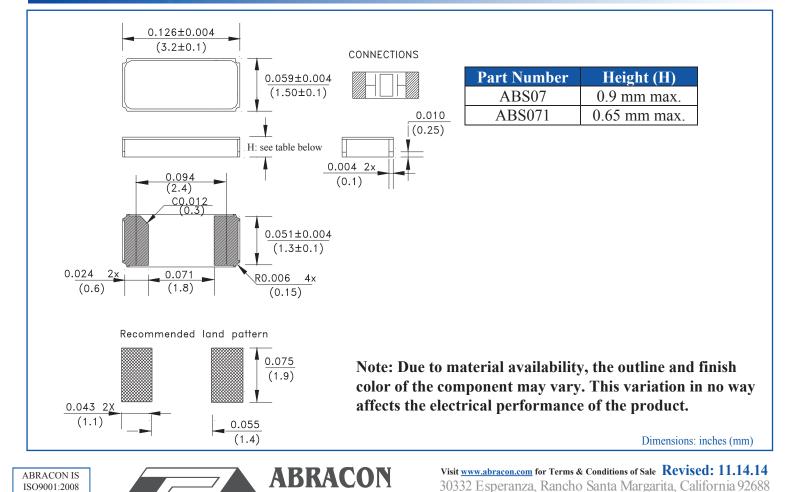
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FREQUENCY VS. TEMPERATURE CHARACTERISTICS



OUTLINE DIMENSIONS:

CERTIFIED



CORPORATION

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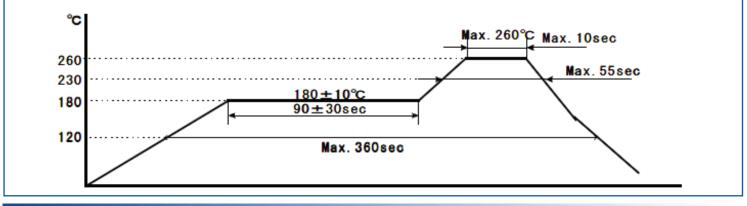


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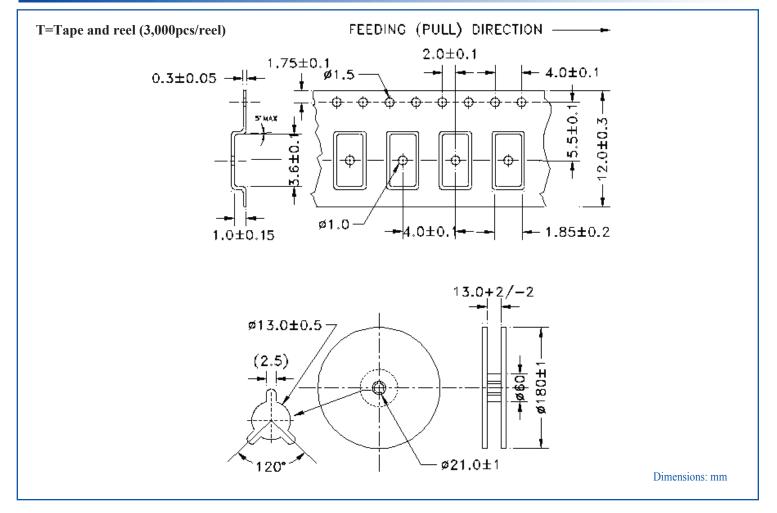
RoHS/RoHS II

3.2 x 1.5 x 0.9 mm

REFLOW PROFILE



TAPE & REEL



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.





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