# 32.768kHz SMD LOW PROFILE CRYSTAL

ABS07





## **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:

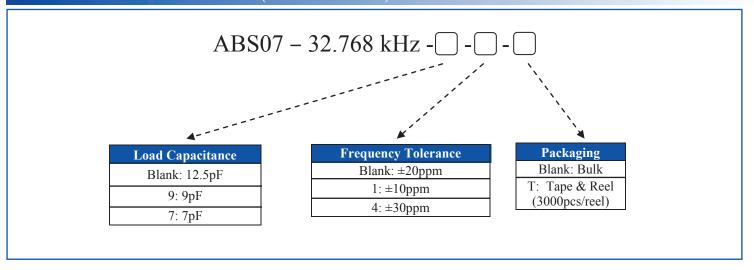
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Wireless communications
- PDA and Smartphone

### 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			ΜΩ	$@ 100 \text{Vdc} \pm 15 \text{V}$

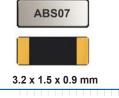
### **OPTIONS AND PART IDENTIFICATION (left blank if standard)**



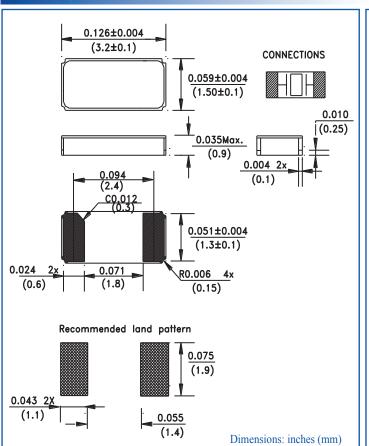
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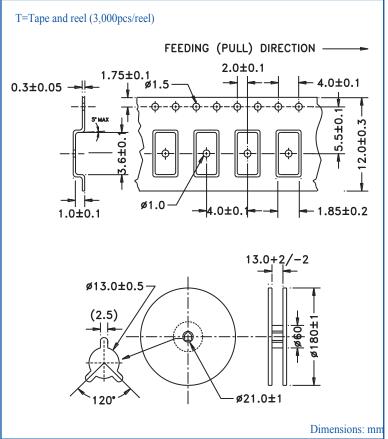




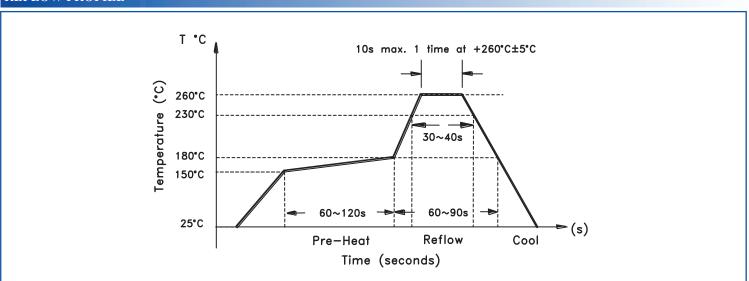
### **OUTLINE DIMENSIONS**



### **TAPE & REEL**



#### **REFLOW PROFILE**



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