32.768 kHz LOW FREQUENCY SMD CRYSTAL



Pb in High Tempe rature Solder (exempt per RoHS 2002/95/EC Annex (7)) Compliant

FEATURES:

- Plastic molded SMD
- 2.5mm height ideal for high density circuit boards
- Suitable for RoHS compliant reflow

ABS25

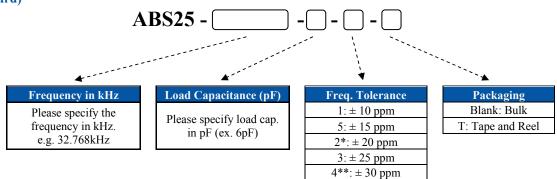
• Extended temperature -40°C to +85°C for industrial applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Nominal Frequency		32.768		kHz	
Frequency Range	30		100	kHz	
Operating Temperature	-40		+85	°C	
Turnover Temperature	+20	+25	+30	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	32.768kHz
	-30		+30		Other frequencies See options
Capacitance Ratio (C0/C1)		450			32.768kHz
		425 to 800			Other frequencies
Frequency Coefficient (B)	-0.040	-0.034	-0.028	ppm/T ²	
Equivalent series resistance (R1)			50	kΩ	
Shunt capacitance (C0)		1.35		pF	32.768kHz
		0.8 to 1.7		pF	Other frequencies
Load capacitance (CL)		12.5		pF	See options
Drive Level			1	μW	
Aging	-3		+3	ppm	@25°C±3°C
	-5		+5		First year
Insulation Resistance	500			MΩ	(<i>a</i>) 100 Vdc ± 15 V

OPTIONS AND PART IDENTIFICATION

(Left blank if standard)



*STD for 32.768kHz. Please leave this blank if F is 32.768kHz.

**STD for other frequencies. Please leave this blank if F is not 32.768kHz.





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> **APPLICATIONS**:

- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Computer clock

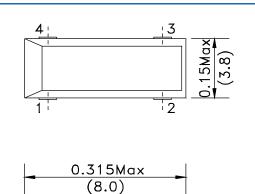
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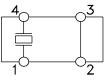
OUTLINE DRAWING:



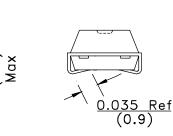
<u>0.22 Ref</u> (5.5)

0.02

(0.5)

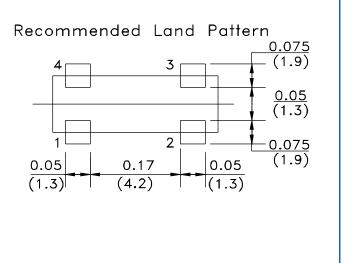


Electrade Arrangement Pin 2 and 3 are not connected to the GND (Floating)

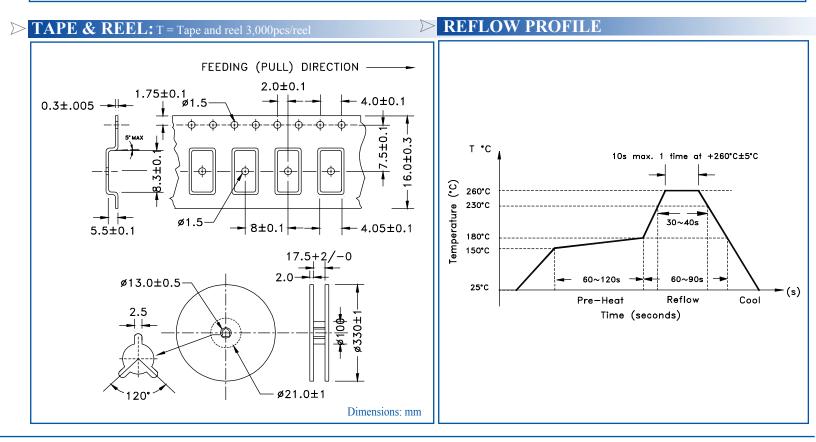


.0

(0.5)



Dimensions: (inches) mm



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.

ABRACON IS ISO9001:2008 CERTIFIED



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