



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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32.768 kHz LOW FREQUENCY SMD CRYSTAL



ABS25

Pb in High Temperature Solder
(exempt per RoHS 2002/95/EC Annex (7))

**RoHS
Compliant**

FEATURES:

- Plastic molded SMD
- 2.5mm height ideal for high density circuit boards
- Suitable for RoHS compliant reflow
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

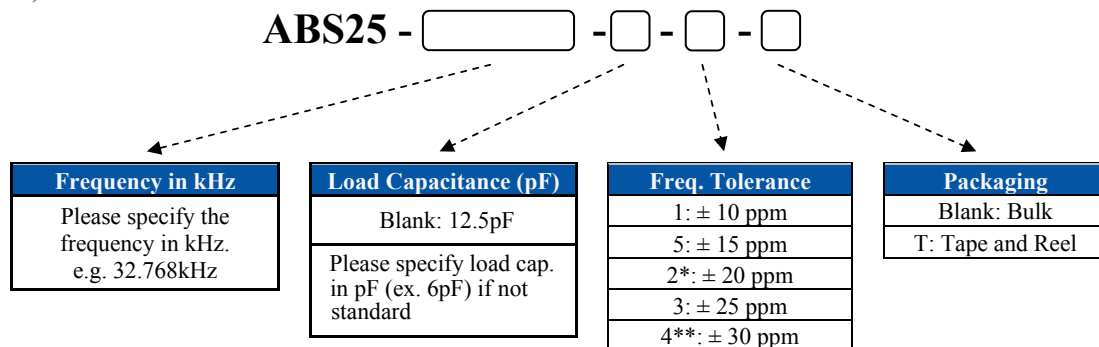
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Computer clock

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 (β)	-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			Other frequencies
Load capacitance (CL)	12.5			pF	See options
Drive Level	----	----	1	μW	
Aging	-3	----	+3	ppm	@25°C±3°C First year
	-5	----	+5		
Insulation Resistance	500	----	----	MΩ	@ 100Vdc ± 15V

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.

32.768 kHz LOW FREQUENCY SMD CRYSTAL

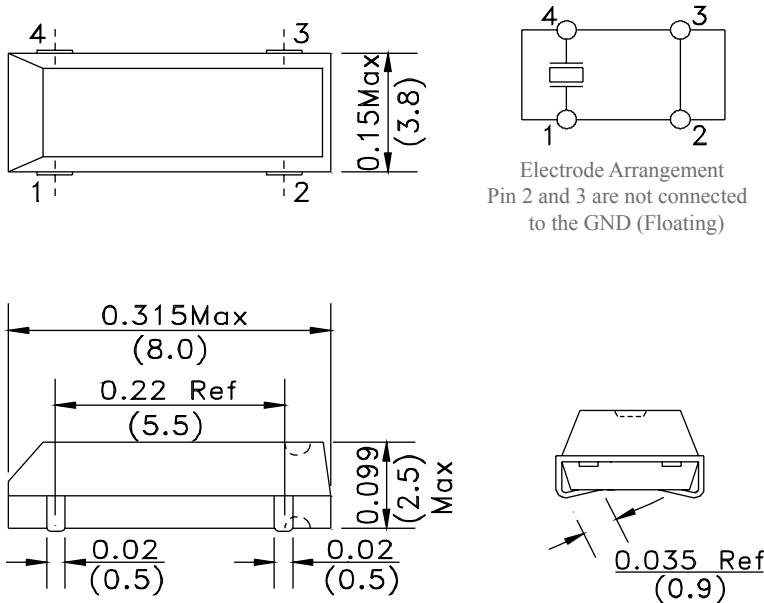


ABS25

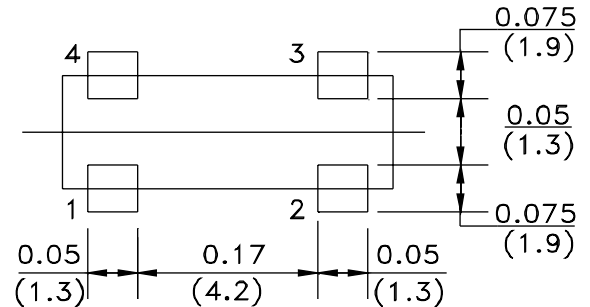
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OUTLINE DRAWING:

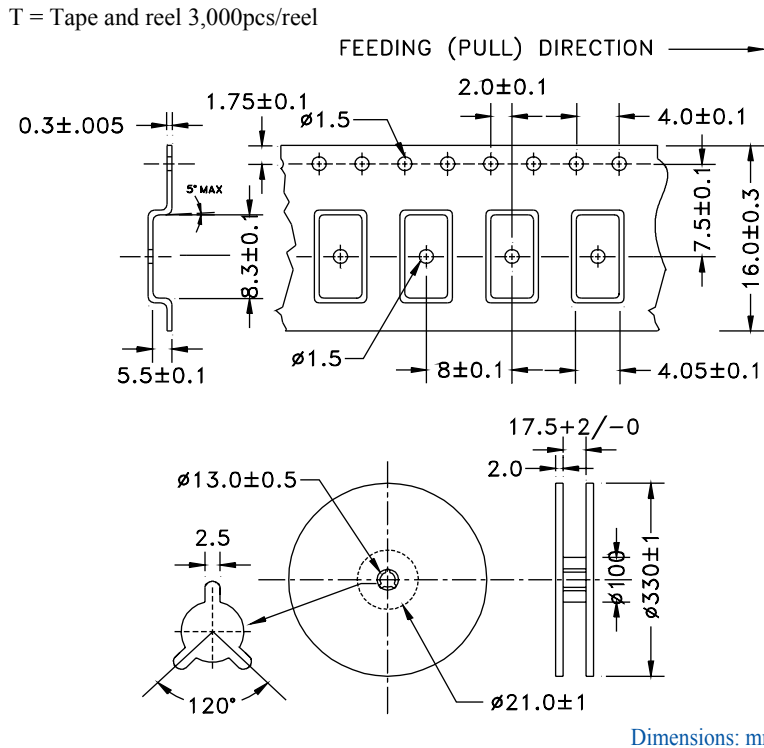


Recommended Land Pattern

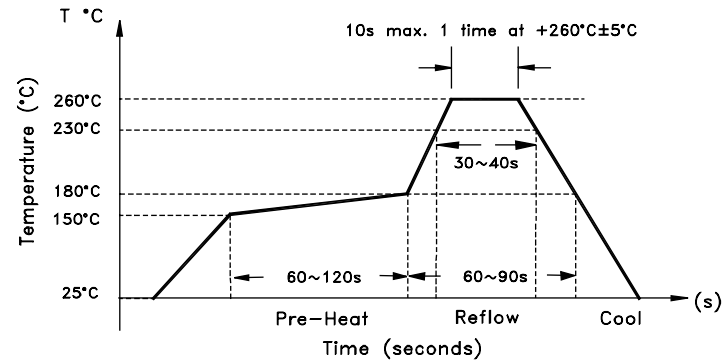


Dimensions: (inches) mm

TAPE & REEL:



REFLOW PROFILE



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