

32.768 kHz LOW FREQUENCY SMD CRYSTAL



ABS25

Pb in High Temperature Solder
(exempt 7(a) per 2015/863/EU Annex)

**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:

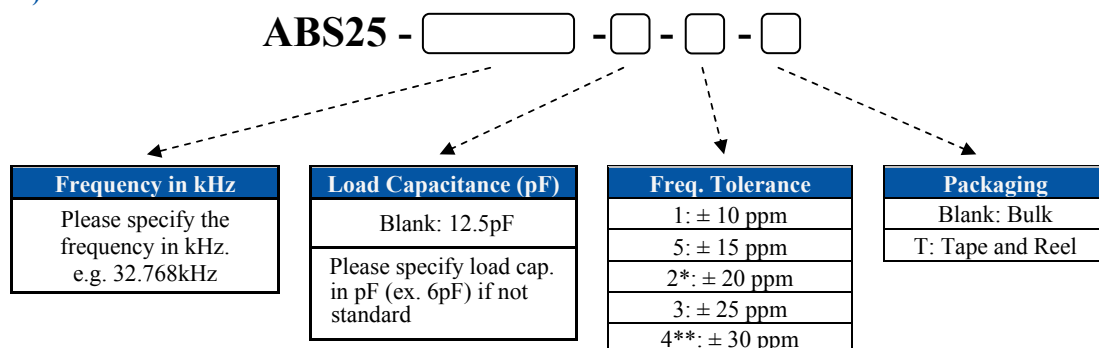
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Computer clock

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Nominal Frequency	----	32.768	----	kHz	
Frequency Range	30	----	100	kHz	Other frequencies
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
Capacitance Ratio (C0/C1)	----	450	----		32.768kHz
	----	425 to 800	----		Other frequencies
Frequency Coefficient (B)		-0.035±0.01		ppm/°C 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 @ 25°C±3°C (First year)	-3	----	+3	ppm	32.768kHz
	-5	----	+5		Other frequencies
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

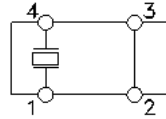
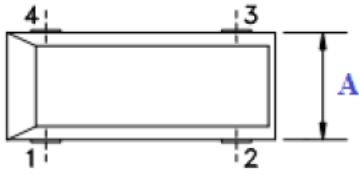


ABS25

Pb in High Temperature Solder
(exempt 7(a) per 2015/863/EU Annex)

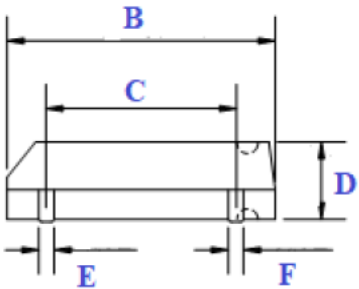
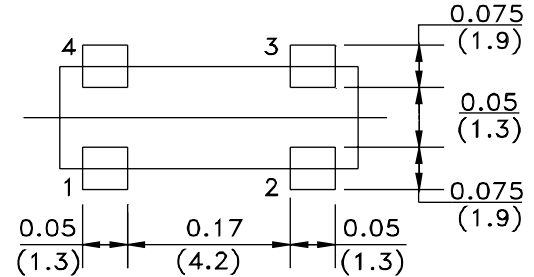
RoHS
Compliant

OUTLINE DRAWING:



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

Recommended Land Pattern



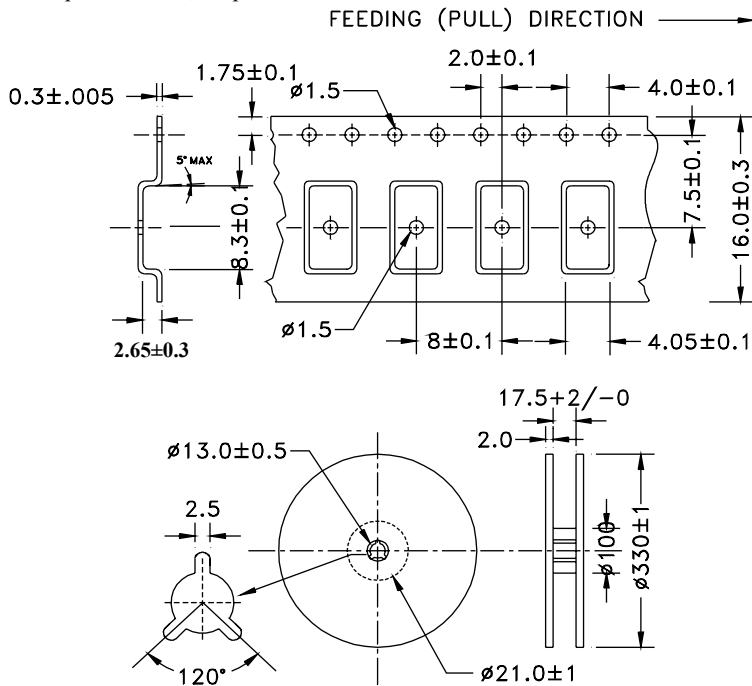
Dimension Table	
A	3.8 ± 0.2 MAX
B	8.4 MAX
C	5.5 ± 0.1
D	2.5 ± 0.1 MAX
E	0.5
F	0.5
G	0.9 Ref.



Dimensions: (inches) mm

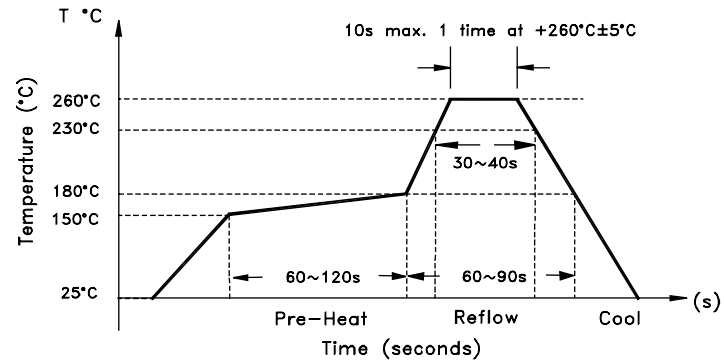
TAPE & REEL:

T = Tape and reel 3,000pcs/reel



Dimensions: mm

REFLOW PROFILE



ATTENTION: Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.