

kHz FREQUENCY SMD CRYSTAL

LOW PROFILE, HEAT RESISTANT PLASTIC PACKAGE

ABS25

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

RoHS
Compliant



FEATURES:

- Low frequency in small size SMD
- 2.5mm height ideal for high density circuit boards
- Excellent environmental & heat resistance plastic package with reflow capability
- Extended temperature -40°C to +85°C for industrial applications

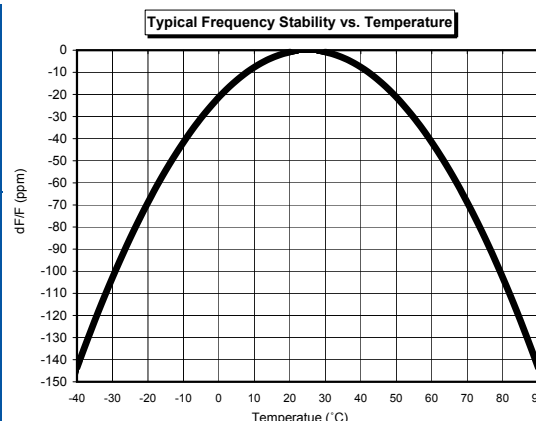
APPLICATIONS:

- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABS25
Standard Frequency	32.768 kHz
Additional Frequencies Available*	32.00kHz, 36.00kHz, 38.40kHz, 40.00kHz, 60.00kHz, 75.00kHz, 76.80kHz, 96.00kHz, 100.00kHz
Frequency Range	30kHz to 100kHz
Operating Temperature	-40°C to + 85°C
Turn-over Temperature	+25°C to $\pm 5^\circ\text{C}$
Storage Temperature	-55°C to +125°C
Frequency Tolerance	± 20 ppm max. (for 32.768kHz) ± 30 ppm max. for other frequencies (see options)
Capacitance Ratio	450 typ. (32.768kHz) 425 to 800 typ. (others)
Frequency Coefficient (β)	-0.034 ± 0.006 ppm/ T^2
Equivalent Series Resistance	50 kohms max.
Load Capacitance CL	12.5 pF (see option)
Shunt Capacitance C0	1.35 pF typ. (32.768kHz) 0.8 pF to 1.7 pF typ. (others)
Drive Level	1.0 μW max.
Aging @ 25°C $\pm 3^\circ\text{C}$ first year	± 3 ppm max. (32.768kHz) ± 5 ppm max. (others)
Insulation Resistance	500 M Ω with 100 Vdc $\pm 15\text{V}$

TUNING FORK CRYSTAL TEMPERATURE CURVE

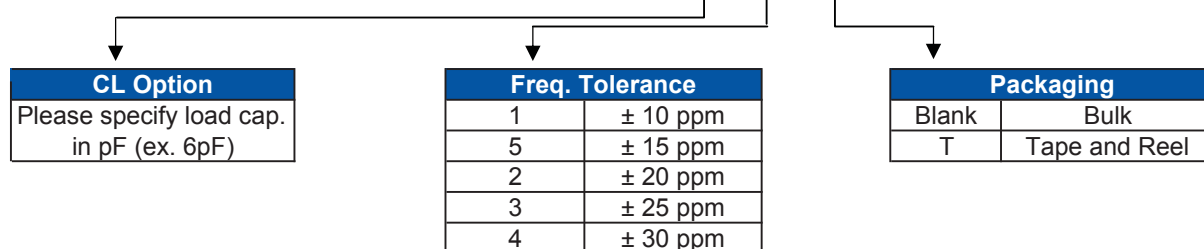


* For additional frequencies please contact Abracon.

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABS25- Frequency- - -



LOW PROFILE MOLDED PLASTIC SURFACE MOUNT, kHz FREQUENCY CRYSTAL

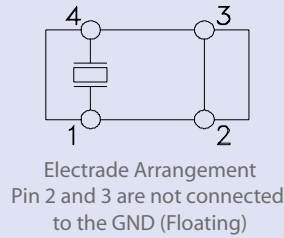
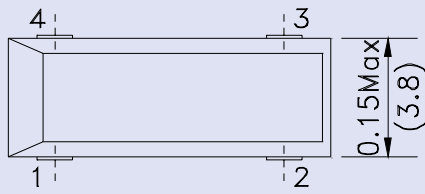
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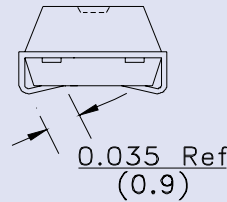
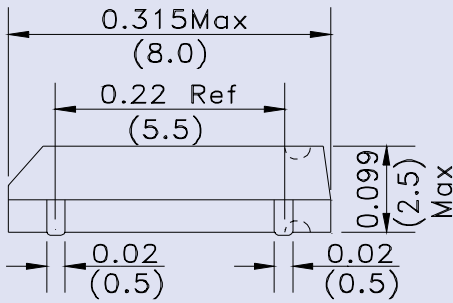
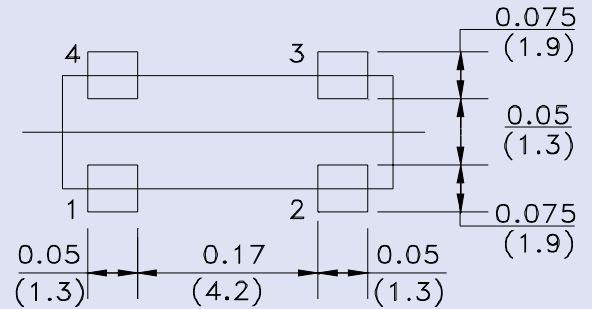
RoHS
Compliant



OUTLINE DRAWING:



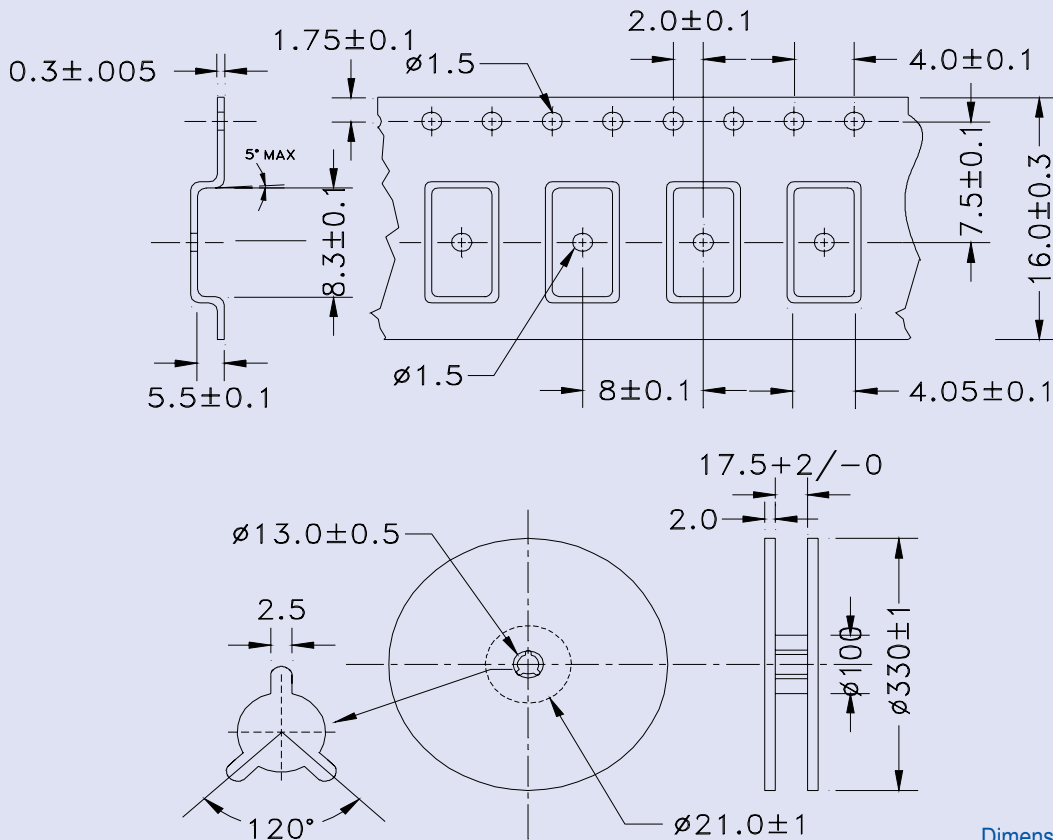
Recommended Land Pattern



Dimensions: (inches) mm

TAPE & REEL: T = Tape and reel 3,000pcs/reel

FEEDING (PULL) DIRECTION →



Dimensions: mm

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



ABRACON
CORPORATION

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