kHz FREQUENCY SMD CRYSTAL LOW PROFILE, HEAT RESISTANT PLASTIC PACKAGE



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

> APPLICATIONS:

FEATURES:

• Low frequency in small size SMD

ABS25

- 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

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 ±5°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 (ß)	- 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 ± 3°C first year	± 3 ppm max. (32.768kHz) ± 5 ppm max. (others)
Insulation Resistance	500 M Ω with 100 Vdc ±15V

TUNING FORK CRYSTAL TEMPERATURE CURVE

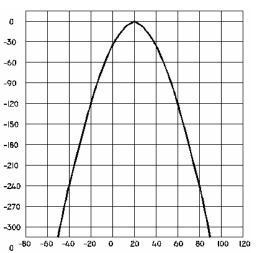
Wide range in communication & measuring equipment

Commercial & Industrial applications

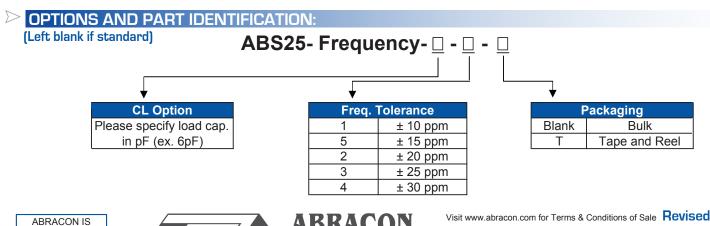
Automotive electronics applications

• Wireless communications

• PDA and Palm Pilots



* For additional frequencieS please contact Abracon.



ABRACON IS ISO 9001 / QS 9000 CERTIFIED



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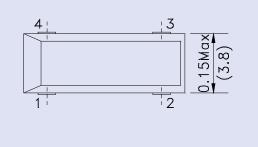
LOW PROFILE MOLDED PLASTIC SURFACE MOUNT, kHz FREQUENCY CRYSTAL

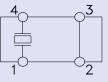


ABS25

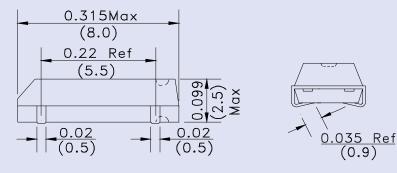
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OUTLINE DRAWING:





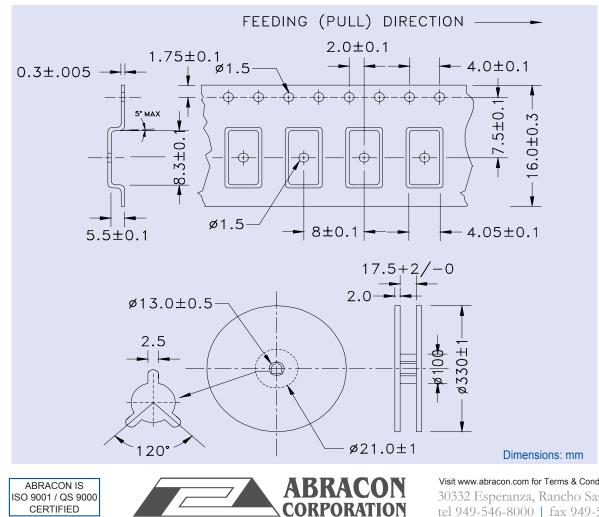
Electrade Arrangement Pin 2 and 3 are not connected to the GND (Floating)



Recommended Land Pattern 4 3 (1.9) 0.05 (1.3) 0.05 0.17 0.05 (1.3) (4.2) (1.3)

Dimensions: (inches) mm

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



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