32.768 kHz FREQUENCY SMD CRYSTAL LOW PROFILE, HEAT RESISTANT PLASTIC PACKAGE

ABS25

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





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

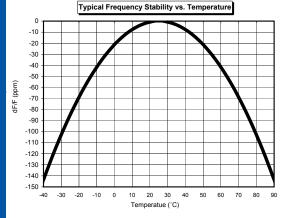
> APPLICATIONS:

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

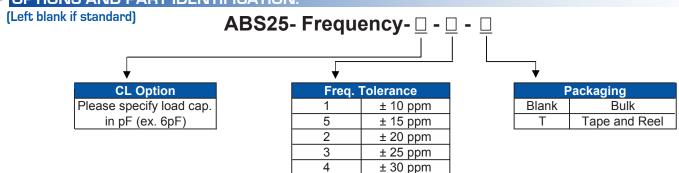
> STANDARD SPECIFICATIONS:

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 ±5°C -55°C to +125°C Storage Temperature Frequency Tolerance ±20 ppm max. (for 32.768kHz) ±30 ppm max. for other frequencies (see options) Capacitance Ratio 450 tvp. (32.768kHz) 425 to 800 typ. (others) - 0.034±0.006 ppm/T² Frequency Coefficient (B) Equivalent Series Resistance 50 kohms max. 12.5 pF (see option) Load Capacitance CL 1.35 pF typ. (32.768kHz) Shunt Capacitance C0 0.8 pF to 1.7 pF typ. (others) 1.0 μW max. Drive Level ± 3 ppm max. (32.768kHz) Aging @ 25°C ± 3°C first year ± 5 ppm max. (others) 500 M Ω with 100 Vdc ±15V Insulation Resistance

TUNING FORK CRYSTAL TEMPERATURE CURVE



OPTIONS AND PART IDENTIFICATION:







^{*} For additional frequencies please contact Abracon.

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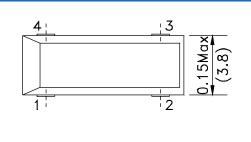
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OUTLINE DRAWING:

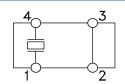


0.315Max

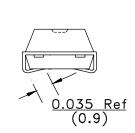
(0.8)

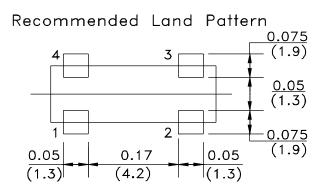
0.22 Ref (5.5)

(0.5)



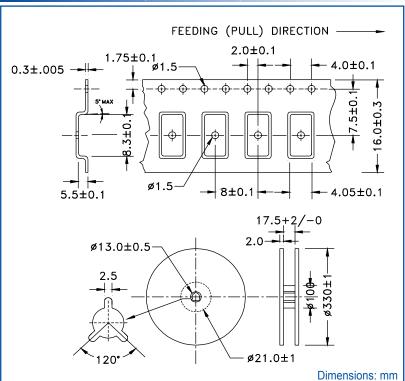
Electrade Arrangement Pin 2 and 3 are not connected to the GND (Floating)





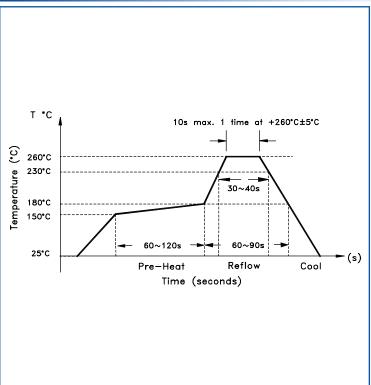
Dimensions: (inches) mm

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



(0.5)

REFLOW PROFILE



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.

