32.768kHz SMD LOW PROFILE CRYSTAL

ABS13

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





ABS13

FEATURES:

- Low frequency
- Plastic package with embedded heat resistant crystal in cylinder package
- Extended temperature -40°C to +85°C for industrial applications
- IR reflow capable

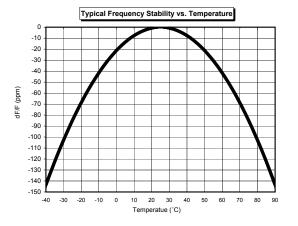
> APPLICATIONS:

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

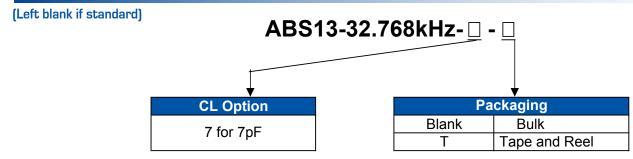
STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABS13
Nominal Frequency	32.768 kHz
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.
Frequency Coefficient (ß)	- 0.034±0.006 ppm/T ²
Equivalent Series Resistance	65 kohms max.
Load Capacitance CL	12.5 pF (see option)
Shunt Capacitance C0	1.2 pF typ.
Motional Capacitance C1	0.0023 pF typ.
Drive Level	1.0 μW max.
Aging (first year) 25°C ± 3°C	± 3 ppm max.
Insulation Resistance	500 Mohms with 100 Vdc ±15V

TUNING FORK CRYSTAL TEMPERATURE CURVE



> OPTIONS AND PART IDENTIFICATION:







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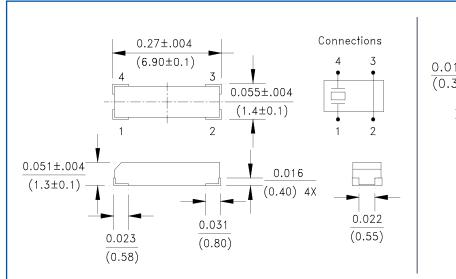
Pb in High Temperature Solder (exempt per RoHS 2002/95/EC Annex (7))

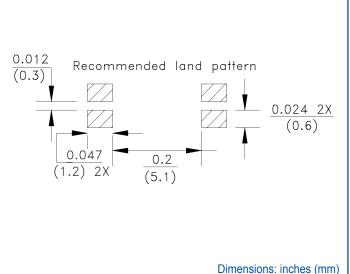




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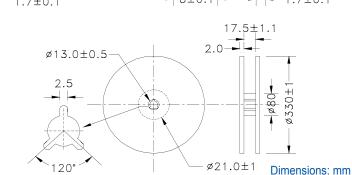
OUTLINE DRAWING:

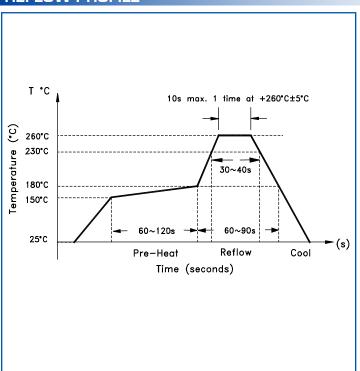




TAPE & REEL: T = Tape and reel 3,000pcs/reel

FEEDING (PULL) DIRECTION 2.0±0.1 0.3±.05 91.5 91.0 8±0.1 17.5±1.1





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.

