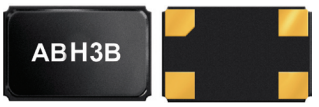
INDUSTRIAL GRADE GLASS SEALED 4 PADS SMD CRYSTAL

ABH3B

Preliminary. Contact Abracon for availability

Pb in glass (exempt per RoHS 2002/95/EC Annex (5))

RoHS Compliant



5.0 X 3.2 X 1.1mm

FEATURES:

- Automotive standard AEC-Q200 compliant.
- Ceramic package hermetically glass sealed assures high precision and reliability.
- IR-reflow capable
- Tight tolerance and stability available.

APPLICATIONS:

- Automotive applications
- Industrial applications

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABH3B Series
Frequency	8.000 MHz to 40.000 MHz
Operation Mode	AT cut fundamental
Operating Temperature	- 10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 125°C
Frequency Tolerance	± 50 ppm max. (see options)
Frequency Stability over the Operating Temperature (Ref to + 25°C)	± 50 ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	5.0 pF max.
Load Capacitance CL	10 pF (see options)
Drive Level	100 µW max., 10 µW typical
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 Vdc

Table 1

Frequency (MHz)	ESR (Ω) max.
8.000-9.999	300
10.000 - 15.999	60
16.000 - 40.000	50

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ABH3B - [ ] MHz [ ] - R [ ] - [ ] - [ ] - [ ] - [ ]

Frequency in MHz
e.g. 4.000MHz
8.1592MHz
26.000MHz

Load Capacitance
Please specify CL in pF or S for Series (8 to 33pF)
Please contact ABRACON for other values

ESR
Specify a value in Ω

Operating Temp.

E: 0°C ~ +70°C
B: -20°C ~ +70°C
C: -30°C ~ +70°C
N: -30°C ~ +85°C
D: -40°C ~ +85°C
J(***): -40°C to +105°C
K(***): -40°C to +125°C

Freq. Tolerance

1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability

U: ± 10 ppm (*)
G: ± 15 ppm (**)
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Q: ± 100 ppm
R: ± 150 ppm

Packaging
Blank: Bulk
T: Tape & Reel

* -10 to +60Conly.
** Option E, B, and -10 to +60Conly.
*** Frequency stability ±100ppm, or ±150ppm only.
Contact ABRACON for tighter frequency stability.

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

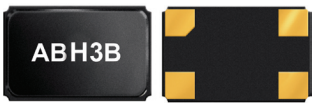
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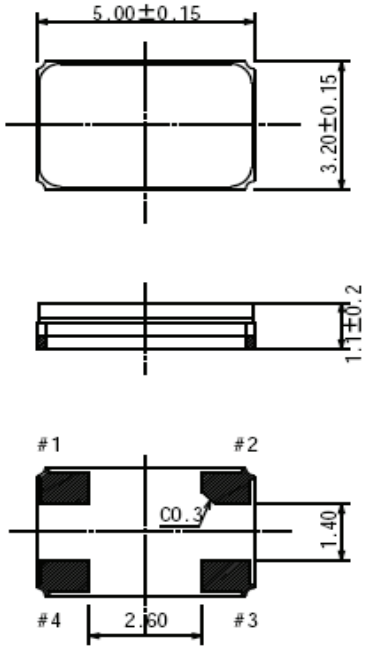
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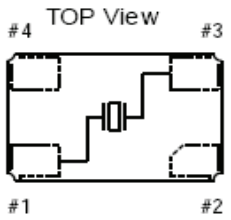
RoHS Compliant



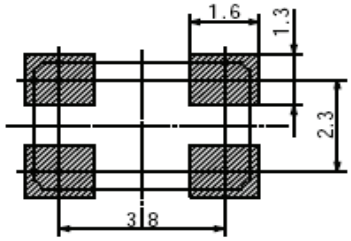
5.0 X 3.2 X 1.1mm

OUTLINE DRAWING:



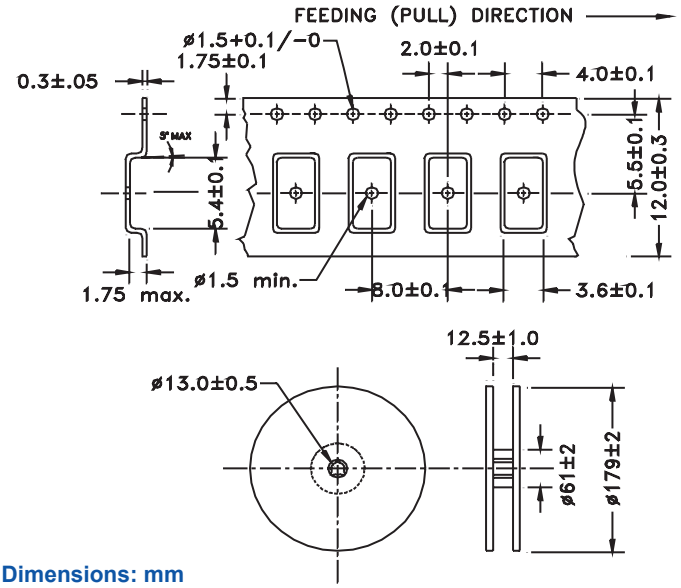


Example of a Terminal Land Pattern



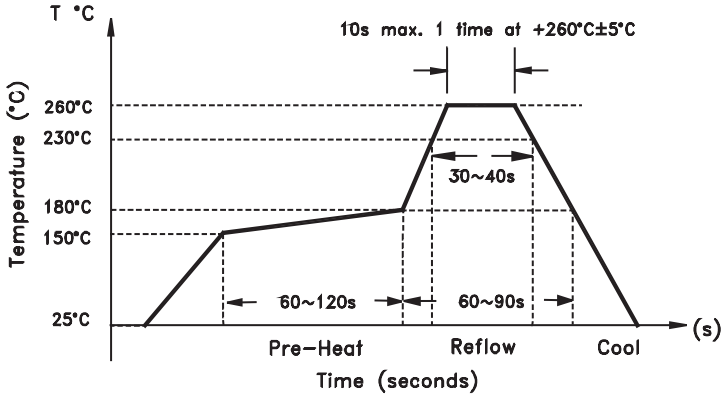
Dimensions: inch (mm)

TAPE & REEL: T=Tape and reel (1,000pcs/reel)



Dimensions: mm

REFLOW PROFILE:





Need a test socket for the ABH3B Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here. P/N AXS-5032-02-06**

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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