AEC-Q200 COMPLIANT GLASS SEALED AUTOMOTIVE GRADE SMD CRYSTAL

ABH4A

Preliminary. Contact Abracon for availability | Pb in glass (exempt per RoHS 2002/95/EC Annex (5)) | RoHS Compliant



7.0 X 5.0 X 1.6mm

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	ABH4A Series
Frequency	4.000 MHz to 40.000 MHz
Operation Mode	AT cut fundamental
Operating Temperature	- 10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 85°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	7.0 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.
4.00-6.999	100
7.00 - 9.999	80
10.00 - 15.999	60
16.00 - 40.00	50

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ABH4A - [ ] 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
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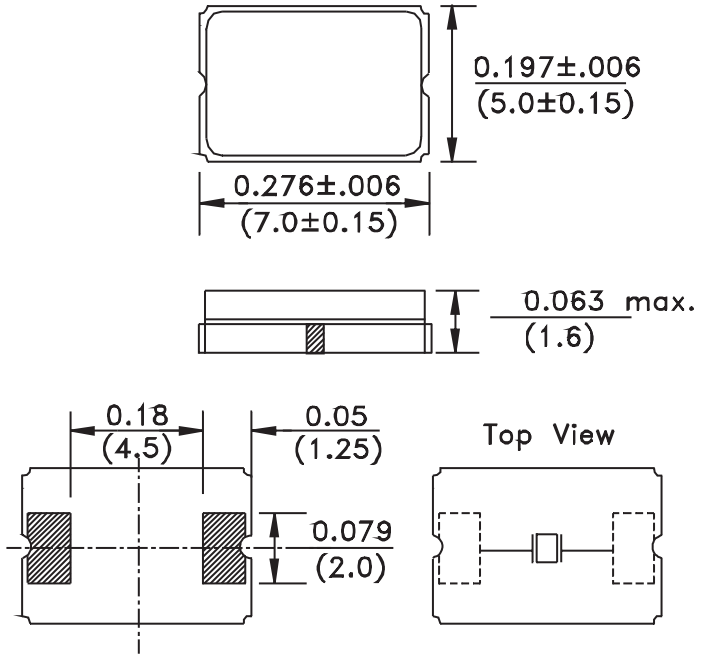
7.0 X 5.0 X 1.6mm

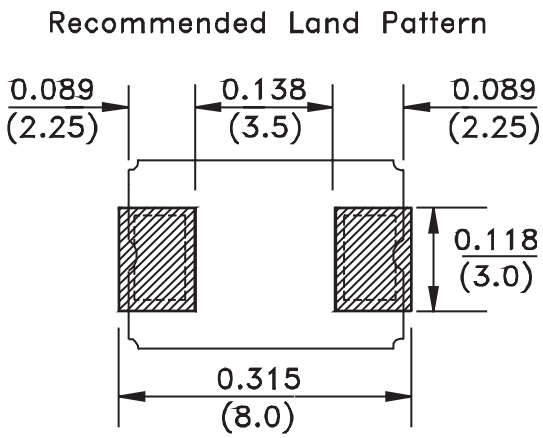
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RoHS Compliant

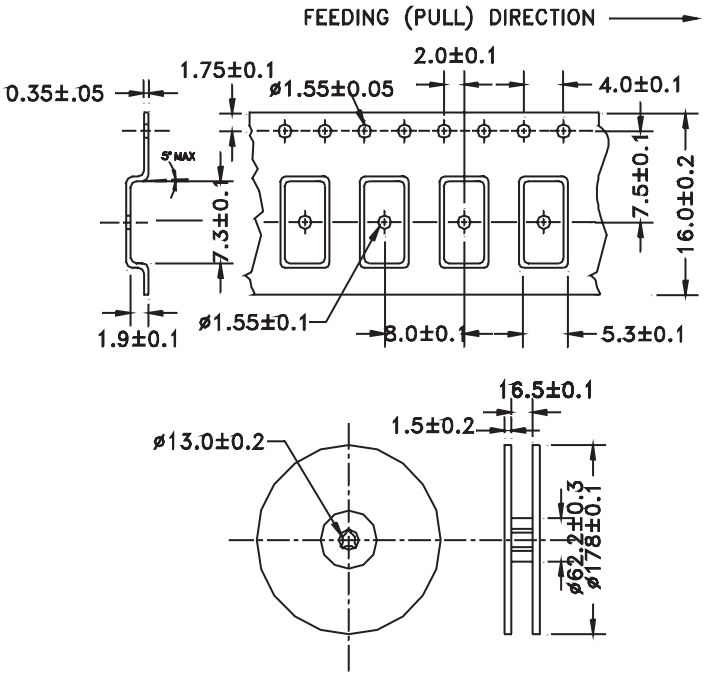
OUTLINE DRAWING:





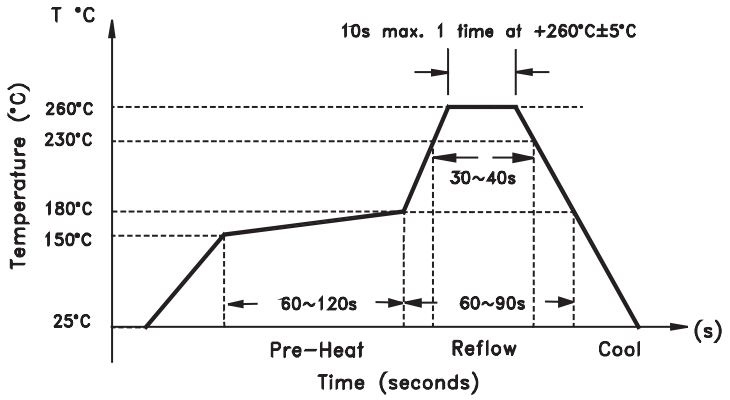
Dimensions: inch (mm)

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



Dimensions: mm

TAPE & REEL:



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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