ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

ABM8G

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

3.2 x 2.5 x 1.0mm

FEATURES:

- Low in height; suitable for thin equipment.
- Glass sealed package assures high reliability and high temperature operation
- Tight tolerance and stability available.
- IR reflow capable
- Low cost version of ABM8 crystal

APPLICATIONS:

- Automotive applications
- High density applications.
- Modems, communication and test equipment.
- PMCIA, Wireless applications

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABM8G Series
Frequency Range	12.000MHz - 50.000MHz
Operation Mode	Fundamental
Operating Temperature	-10°C to + 60°C (see options)
Storage Temperature	-55°C to +125°C
Frequency Tolerance at +25°C	± 50ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref. to +25°C)	± 50ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	5.0pF max
Load Capacitance CL	10pF (see options)
Drive Level	100µW max., 10µW Typical
Aging (first year) at 25°C ± 3°C	±3ppm max.
Insulation Resistance	500 MΩmin. at 100 Vdc ±15V

TABLE 1- Standard ESR

Frequency (MHz)	ESR(Ω) max
12.000	120
12.001 - 20.000	80
20.001 - 28.00	60
28.001 - 50.00	50

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ABM8G - [ ] MHz - [ ] - R[ ] - [ ] - [ ] - [ ] - [ ]

Frequency in MHz
e.g. 24.576MHz
14.31818MHz
26.000MHz

Load Capacitance
Please specify CL in pF or S for Series (Minimum 7pF)
Please contact ABRACON for values under 10pF

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

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

Packaging
- Blank: Bulk
- T: Tape & Reel (1kpcs)
- T3: Tape & Reel (3kpcs)

(*) ?10°C to +60°C only. Contact ABRACON for tighter freq. stability.
(**) ?10°C to +60°C Option E,B,C,N only.

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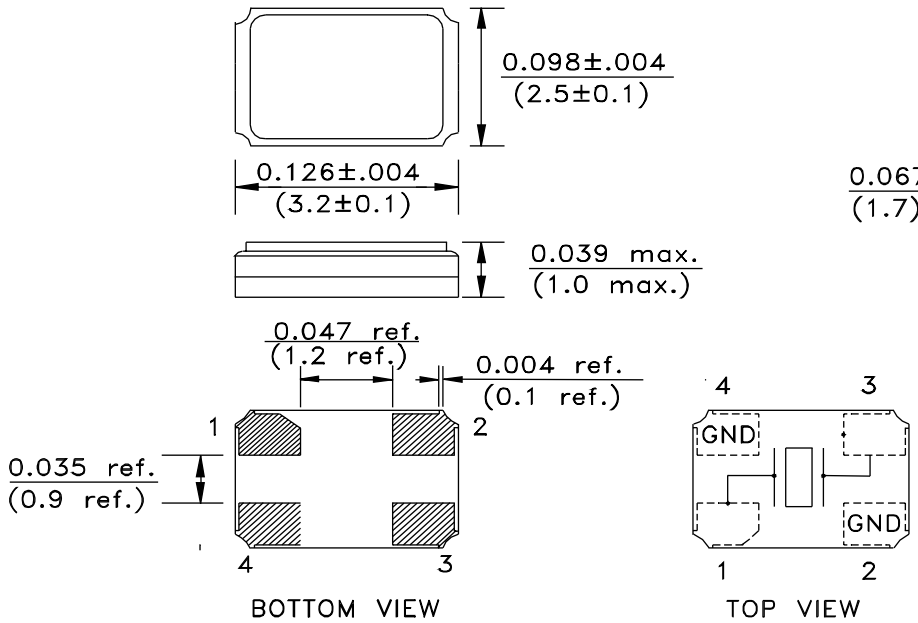
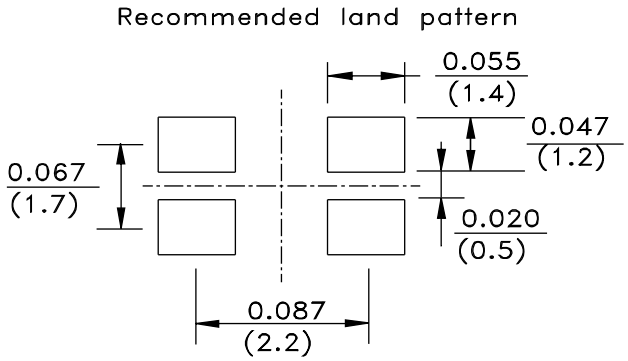
Pb RoHS Compliant

OUTLINE DRAWING:



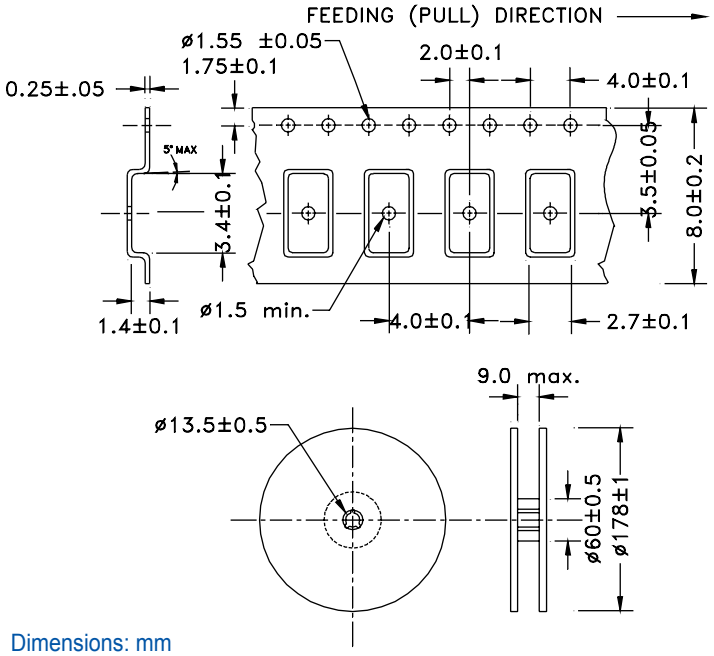


Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.

Dimensions: Inch (mm)

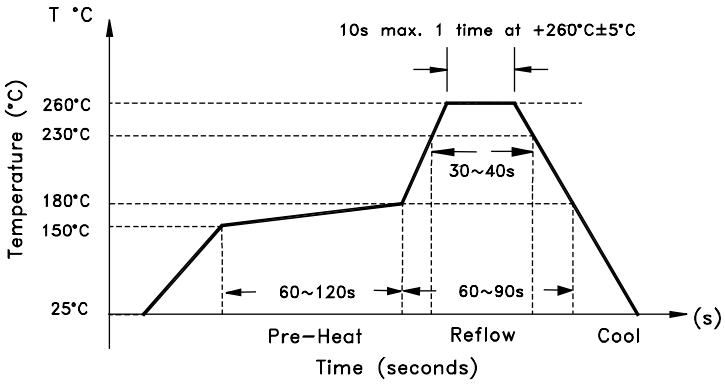
TAPE & REEL: (1000pcs/reel or 3000pcs/reel)

Tape and reel (1,000pcs/reel)
: Tape and reel (3,000pcs/reel)



Dimensions: mm

REFLOW PROFILE:



Need a test socket for the ABM8G Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.**

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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