

# ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

## ABM8G

Pb in glass exemption 7 (c)-I per  
RoHS II 2011/65/EU Annex

**RoHS**  
Compliant



3.2 x 2.5 x 1.0 mm

### 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:

- 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 M Ω min. 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  -  -  -  -

<b>Frequency in MHz</b>
e.g. 24.576MHz
14.31818MHz
26.000MHz

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

<b>ESR</b>
Specify a value in Ω

<b>Operating Temp.</b>
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

<b>Freq. Tolerance</b>
1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

<b>Packaging</b>
Blank: Bulk
T: Tape & Reel (1kpcs)
T3: Tape & Reel (3kpcs)

<b>Freq. Stability</b>
U: ± 10 ppm (*)
G: ± 15 ppm (**)
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Q: ± 100 ppm

(\*) -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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**Revised: 05.06.14**

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ABM8G

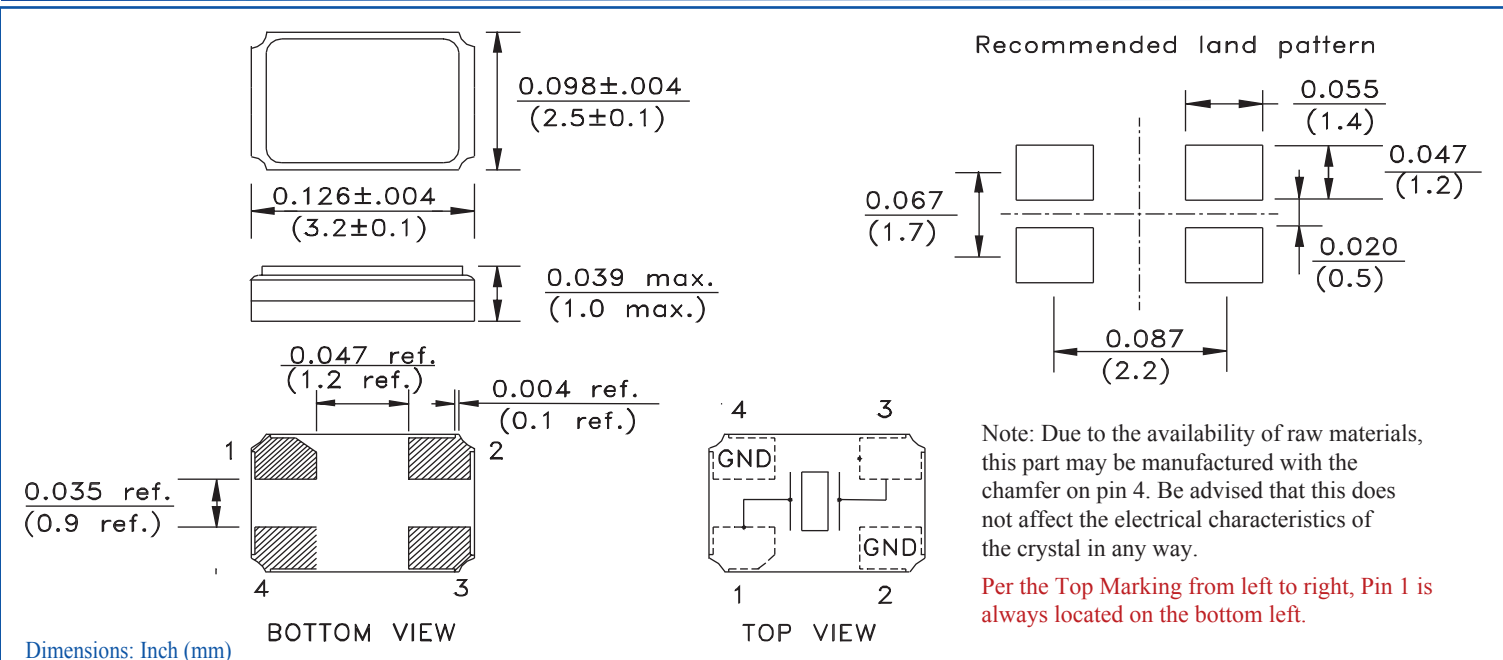
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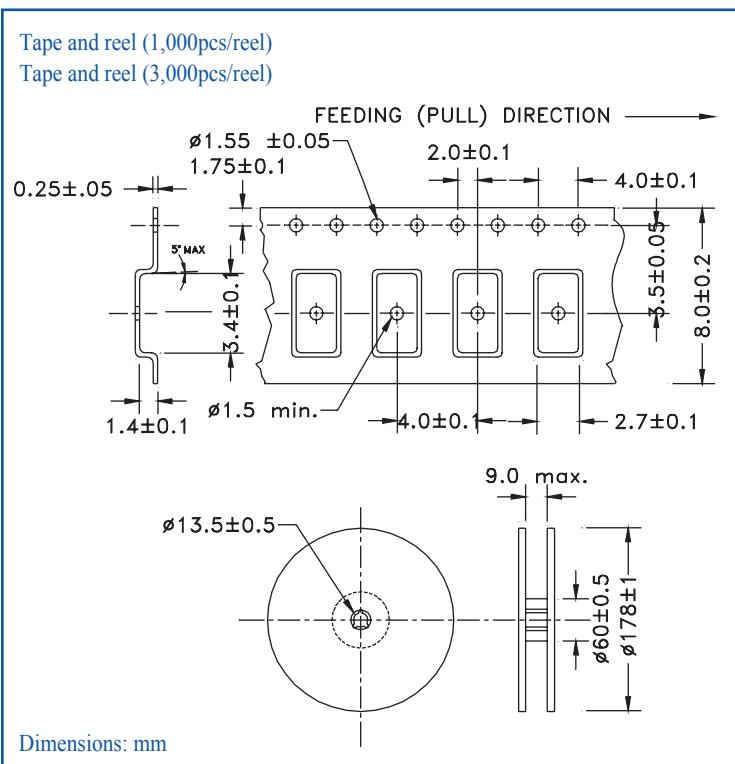


3.2 x 2.5 x 1.0 mm

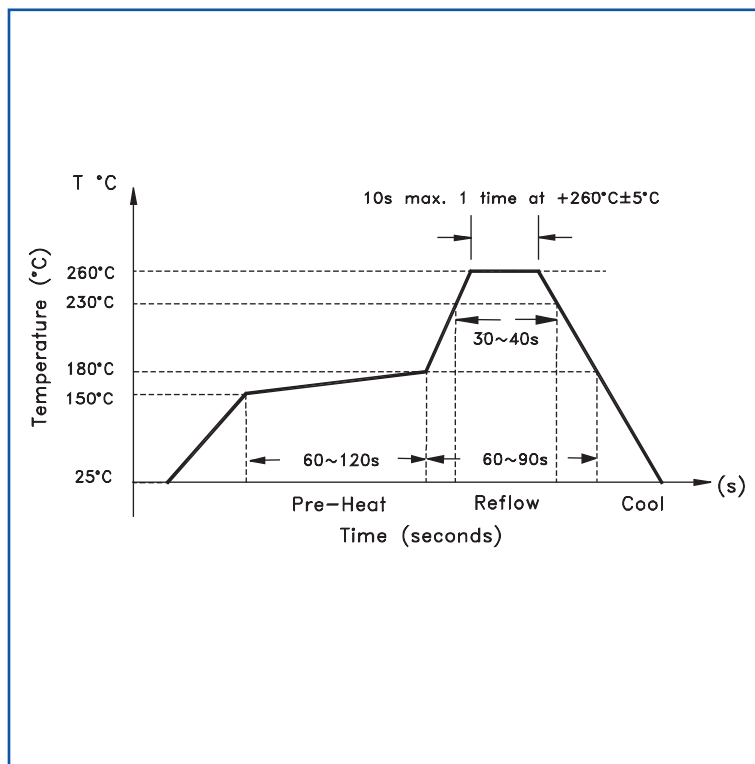
## ➤ OUTLINE DRAWING:



## ➤ TAPE & REEL:



## ➤ REFLOW PROFILE:



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

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