

# ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL



3.2 x 2.5 x 1.0mm

**ABM8G**

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

**RoHS**  
Compliant

## 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.
- PCMCIA, 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 [ ] - [ ] - [ ] - [ ] - [ ]

**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

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

**Freq. Stability**  
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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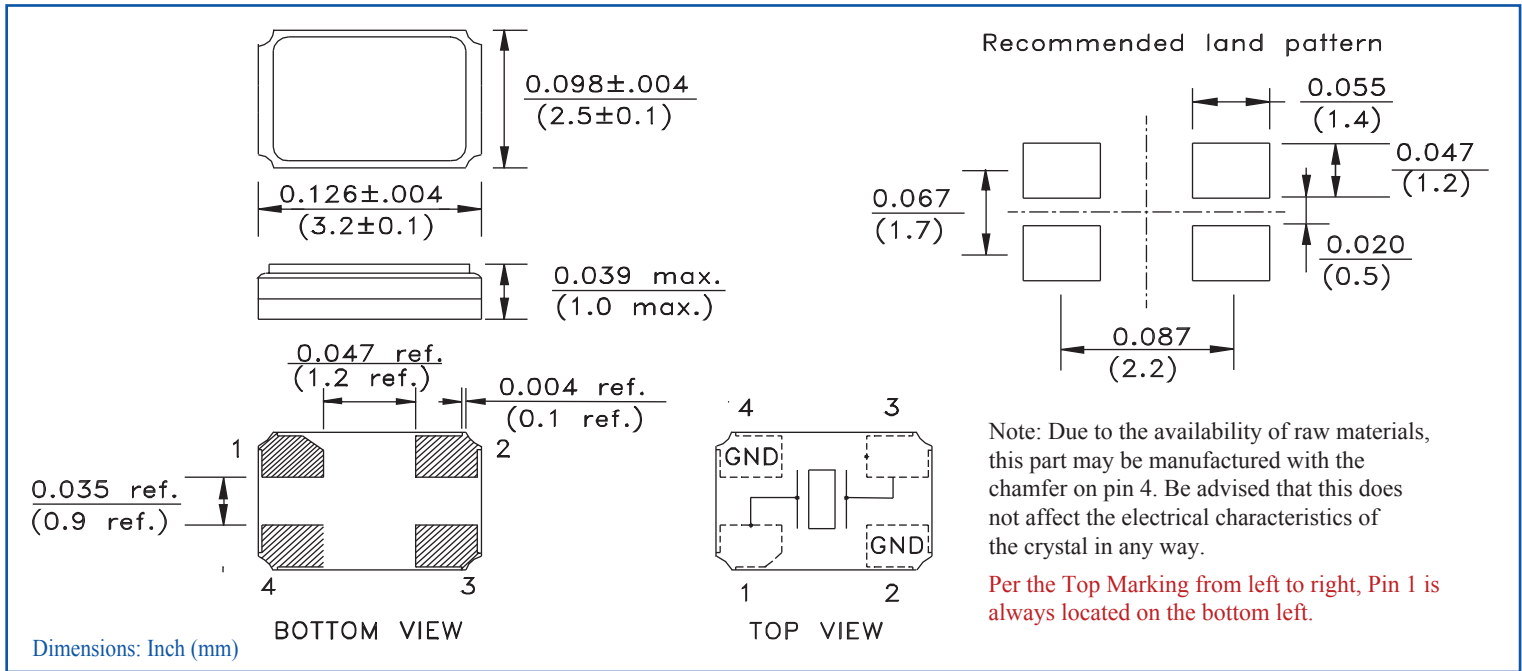
3.2 x 2.5 x 1.0mm

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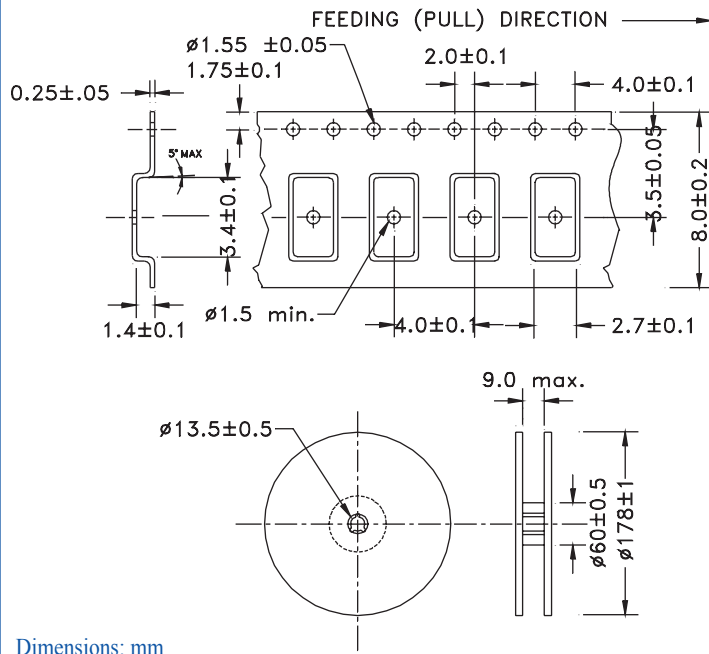
**RoHS**  
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## OUTLINE DRAWING:

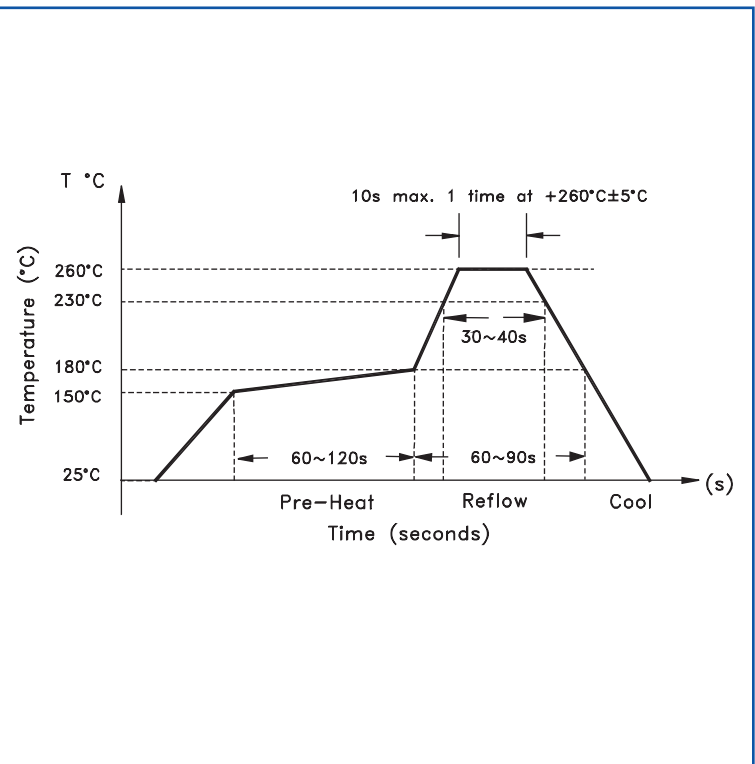


## TAPE & REEL:

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