

# ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

ABM8G

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

RoHS/RoHS II Compliant



3.2 x 2.5 x 1.0mm

**Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable**

## 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                                                         | Minimum     | Typical | Maximum | Units | Notes                 |
|--------------------------------------------------------------------|-------------|---------|---------|-------|-----------------------|
| Frequency Range                                                    | 12.000      |         | 50.000  | MHz   |                       |
| Operation Mode                                                     | Fundamental |         |         |       |                       |
| Operating Temperature                                              | -10         |         | +60     | °C    | See options           |
| Storage Temperature                                                | -40         |         | +85     | °C    |                       |
| Frequency Tolerance @+25°C                                         | -50         |         | +50     | ppm   | See options           |
| Frequency Stability over the Operating Temperature (ref. to +25°C) | -50         |         | +50     | ppm   | See options           |
| Equivalent series resistance                                       |             |         | 120     | Ω     | 12.000MHz             |
|                                                                    |             |         | 80      |       | 12.001MHz ~ 20.000MHz |
|                                                                    |             |         | 60      |       | 20.001MHz ~ 28.000MHz |
|                                                                    |             |         | 50      |       | 28.001MHz ~ 50.000MHz |
| Shunt capacitance (C0)                                             |             |         | 5.0     | pF    |                       |
| Load capacitance (CL)                                              | 10          |         |         | pF    | See options           |
| Drive Level                                                        |             | 10      | 100     | μW    |                       |
| Aging@25°C±3°C                                                     |             |         | ±3      | ppm   | First year            |
| Insulation Resistance                                              | 500         |         |         | M Ω   | @ 100Vdc ± 15V        |

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



\* -10 ~ 60°C only. Contact Abracon for tighter freq. stability.

\*\* -10 ~ 60°C option E, B, C, N only.

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CERTIFIED



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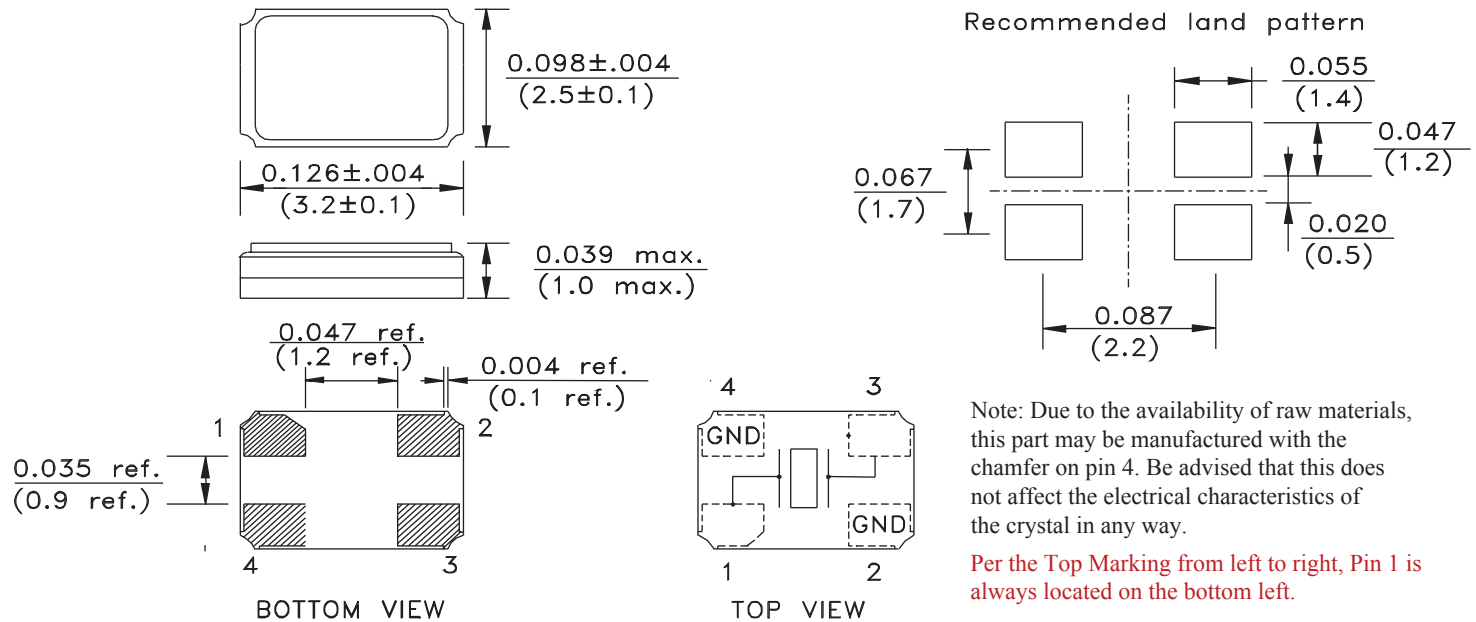
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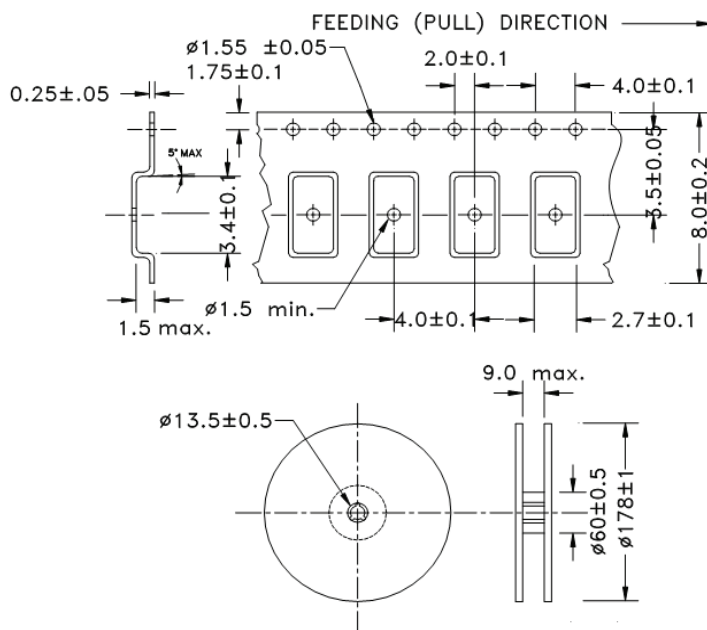
3.2 x 2.5 x 1.0mm

## OUTLINE DRAWING:

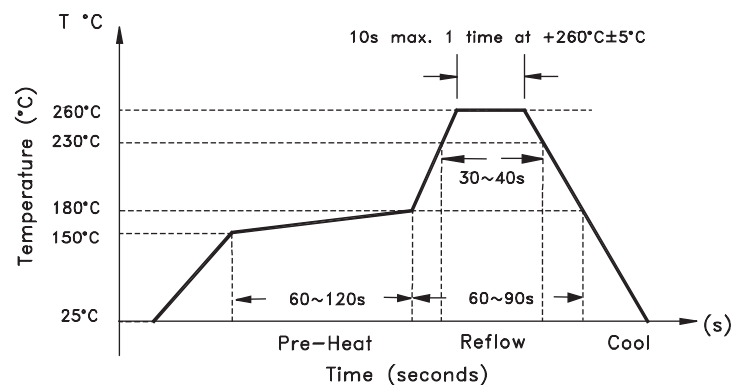


## TAPE & REEL:

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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The Power of Linking Together

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