ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL



3.2 x 2.5 x 1.0 mm

ABM8G

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

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.
- PMCIA, wireless applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	12.000		50.000	MHz	
Operation Mode		Fundamental			
Operating Temperature	-10		+60	ºC	See options
Storage Temperature	-40		+85	ºC	
Frequency Tolerance @+25ºC	-50		+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25ºC)	-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@25ºC±3ºC			±3	ppm	First year
Insulation Resistance	500			M Ω	@ 100Vdc ± 15V

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

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

Frequency in MHz
Please specify the frequency in MHz. e.g. 14.31818MHz

Load Capacitance (pF)
Please specify CL in pF or S for series. (Minimum 7pF) Please contact Abracon for values under 10pF

Custom ESR if other than standard
R□
□: Specify a value in Ω (e.g.: R40)

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 (1k pcs /reel)
T3: Tape & Reel (3k pcs /reel)

* -10 ~ 60°C only. Contact Abracon for tighter freq. stability.
** -10 ~ 60°C option E, B, C, N only.

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.13.15**
Ph. 949.546.8000 | Fax. 949.546.8001
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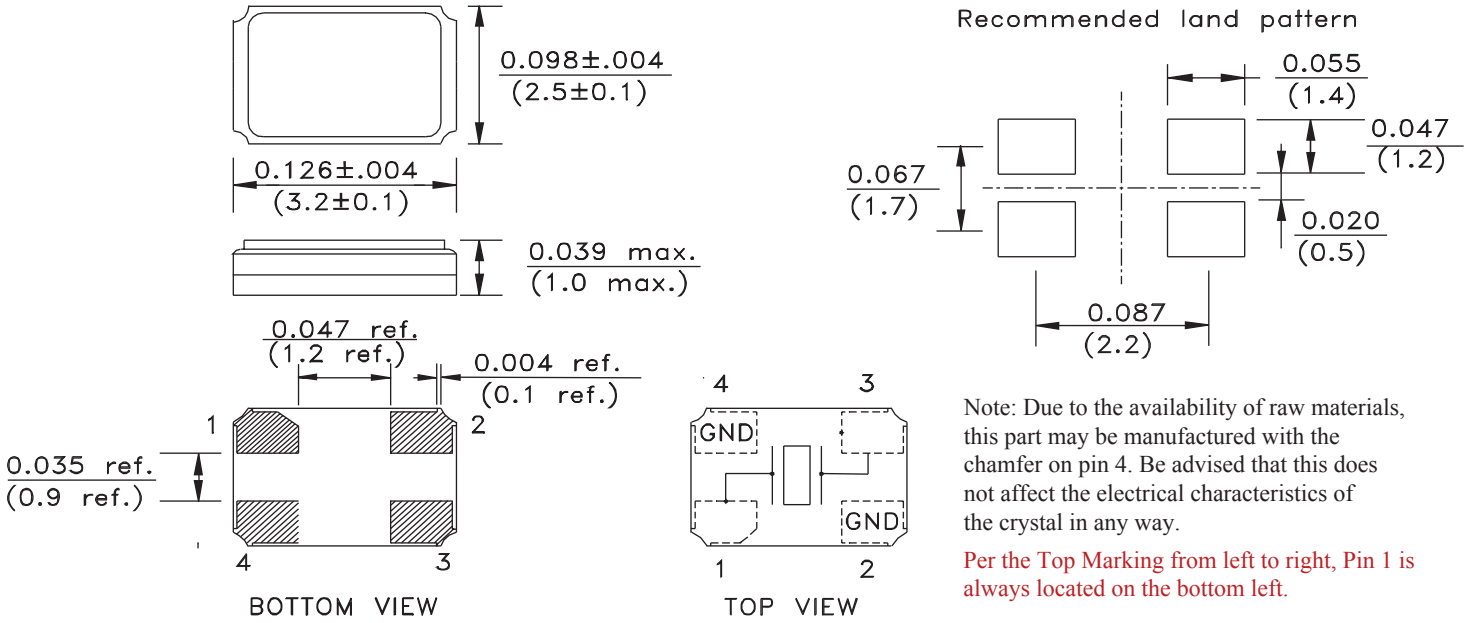


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OUTLINE DRAWING:



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.

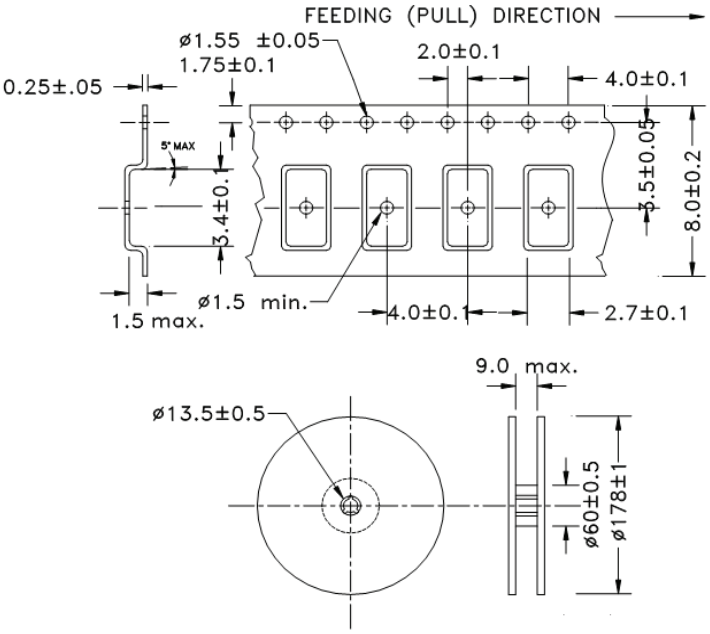
Per the Top Marking from left to right, Pin 1 is always located on the bottom left.

Dimensions: Inch (mm)

TAPE & REEL:

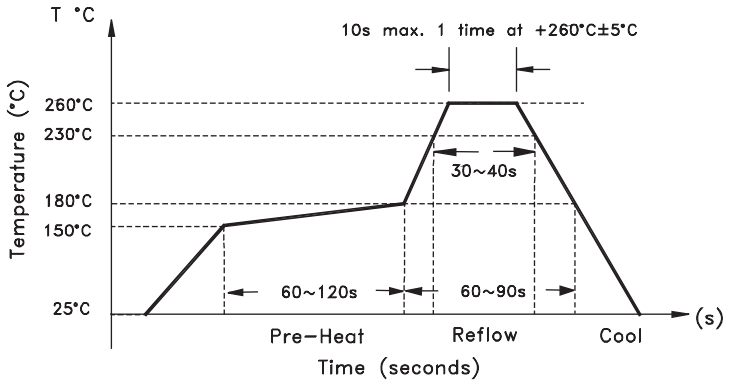
Tape and reel (1,000pcs/reel)

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.**

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Unikeyic Electronics

Global Electronic Components Distributor

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ABRACON:

ABM8G-24.000MHz-4-Y-T3 ACHL-25.000MHZ-EK ACML-0402HC-301-T ASDMB-8.000MHZ-LC-T
ASV-125.000MHZ-EC-T FC5BAEEMM8.0-T1 ABM8-24.000MHZ-D4Y-T AISC-1008F-100G-T
AMPMAFB-27.0000T ASPIAIG-Q1060-1R0M-T ASPIAIG-Q5030-1R0M-T FT5HNBPK25.0-T1
ABM8-27.000MHZ-B2-T AMDLA4010S-2R2MT ASCO-50.000MHz-E-K-T3 ASE3-25.000MHz-E-K-T
ASPI-F1010-4R7M-T ABLS-16.000MHZ-D4-T ABM11W-16.0000MHZ-8-K1Z-T3
ABM8AIG-24.000MHZ-12-2Z-T3 AMPMGFB-25.0000T ASPI-M3015-2R2M-T ATCA-07-101M-H
ATX-11-F-27.000MHZ-F05-T ABLSG-24.000MHz-D-2-Y-T AMPLA5030Q-4R7MT ASPIAIG-F1040-R36M-T
ABM8G-16.000MHz-4-Y-T3 ABMM2-10.000MHZ-E2-T ASEMB-100.000MHZ-LY-T