

ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL



ABM8G

3.2 x 2.5 x 1.0mm

ABM8G

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

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:

- Automotive 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 MΩ 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.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 12.22.09**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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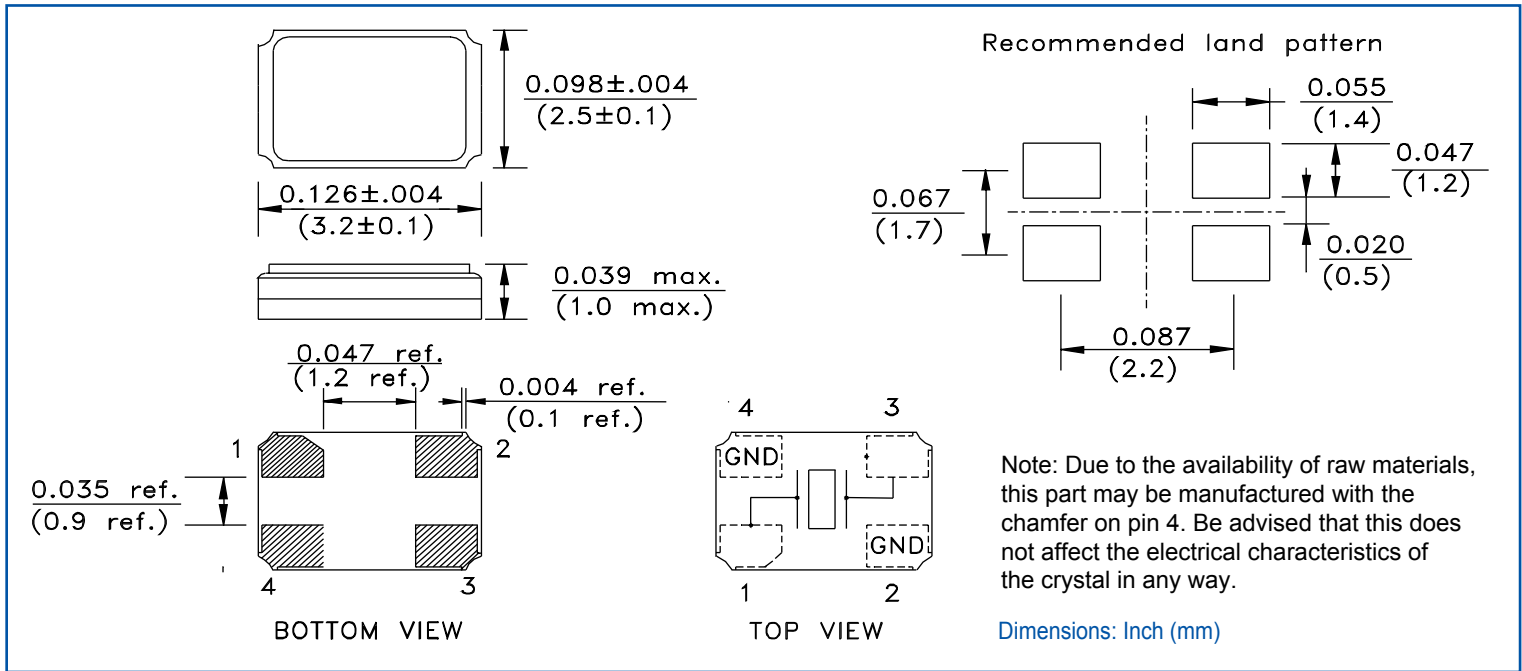
3.2 x 2.5 x 1.0mm

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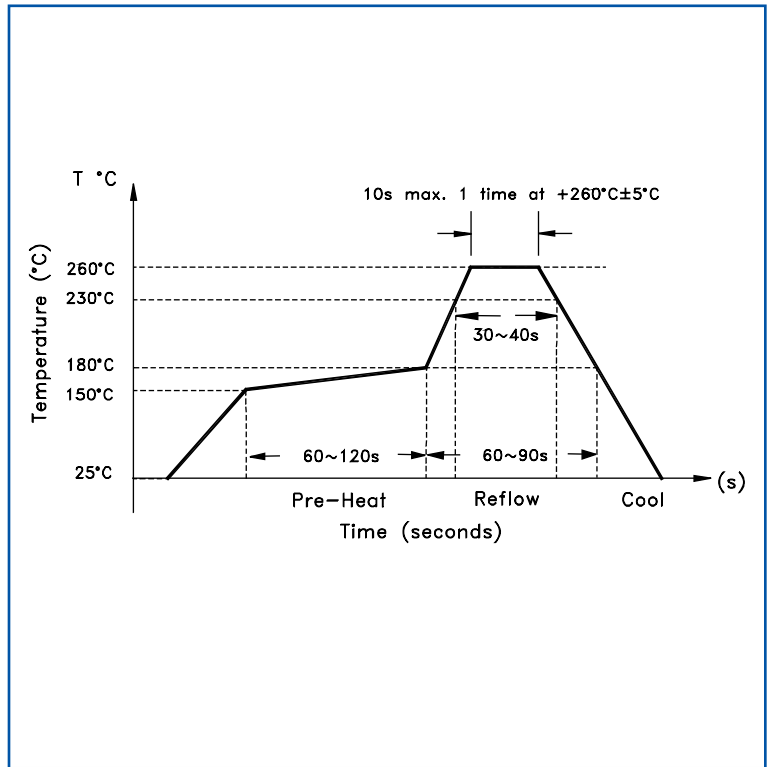
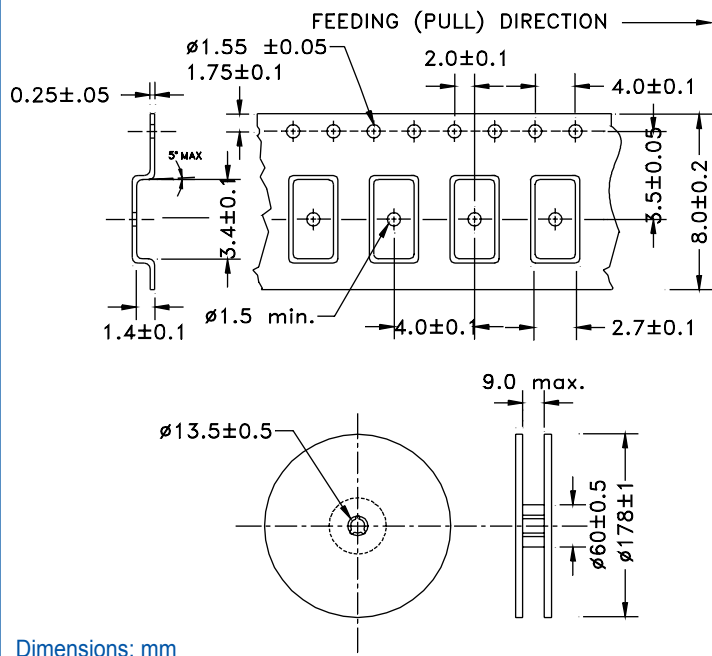
OUTLINE DRAWING:



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

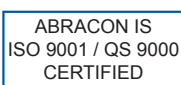
REFLOW PROFILE:

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



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

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



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