ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL



ABM8G-106-12.000MHZ-T

Pb in glass exemption 7 (c)-I per RoHS II 2011/65/EU Annex | 3.2 x 2.5 x 1.0mm RoHS/RoHS II Compliant

MSL = N/A: NOT APPLICABLE

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FEATURES

- Low in height; suitable for thin equipment
- Glass sealed package assures high reliability and high temperature operation
- IR reflow capable
- Low cost version of ABM8 crystal

APPLICATIONS

- Automotive applications
- High density applications
- Modems, communication and test equipment.
- PMCIA, Wireless applications

KEY ELECTRICAL SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range		12.000		MHz	
Operation Mode		Fundamental			
Operating Temperature Range	-40		+85	ºC	
Storage Temperature	-40		+85	ºC	
Frequency Tolerance @ +25°C	-20		+20	ppm	
Frequency Stability over the Operating Temperature (ref. to +25°C)	-30		+30	ppm	
Equivalent series resistance (R1)			120	Ω	
Shunt capacitance (C0)			5.0	pF	
Load capacitance (CL)		10		pF	
Drive Level		10	100	µW	
Aging@25°C±3°C			±3	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc ± 15V

PART IDENTIFICATION

ABM8G-106-12.000MHZ- ☐

Packaging
Blank: Bulk
T: 1kpcs / reel
T3: 3kpcs / reel

ABRACON LLC
The Power of Linking Together

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 03.19.2018

ABRACON IS ISO9001-2008 CERTIFIED

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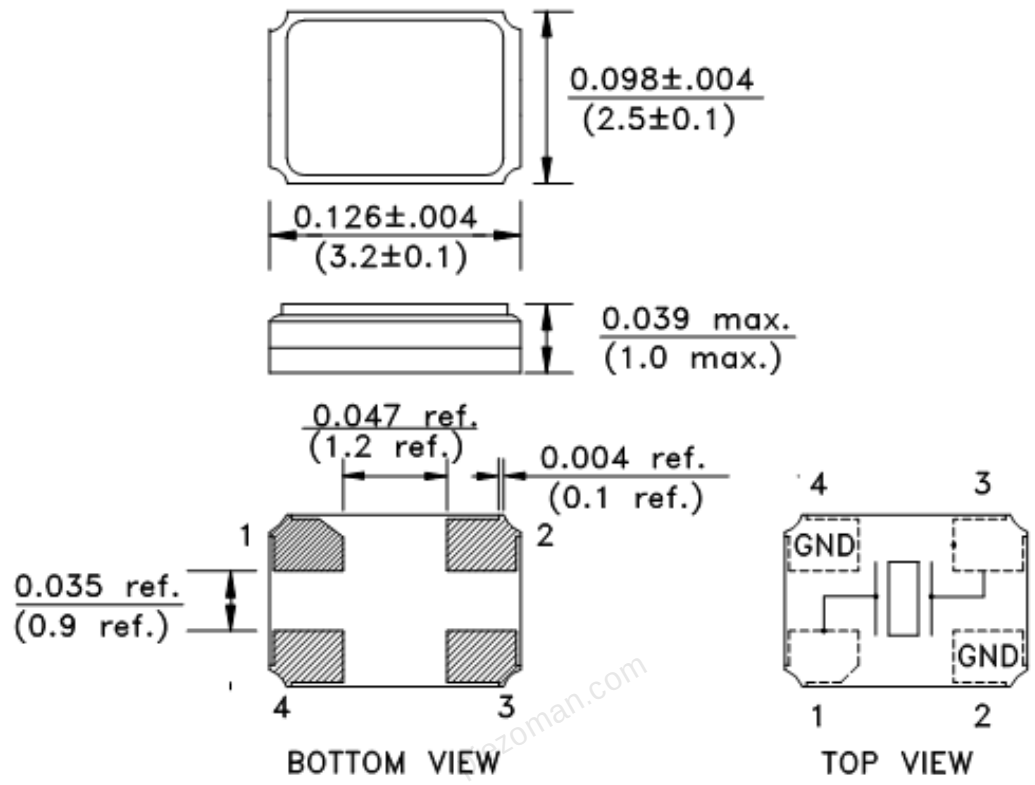
PB IN GLASS EXEMPTION 7 (C)-I PER RoHS II 2011/65/EU ANNEX

3.2 x 2.5 x 1.0mm

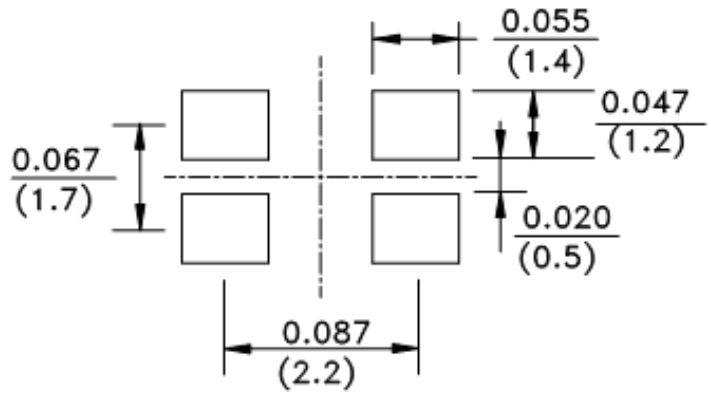
RoHS/RoHS II Compliant

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MECHANICAL DIMENSIONS



Recommended land pattern



Dimensions: inches (mm)

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.

SEALING METHOD = GLASS SEALING

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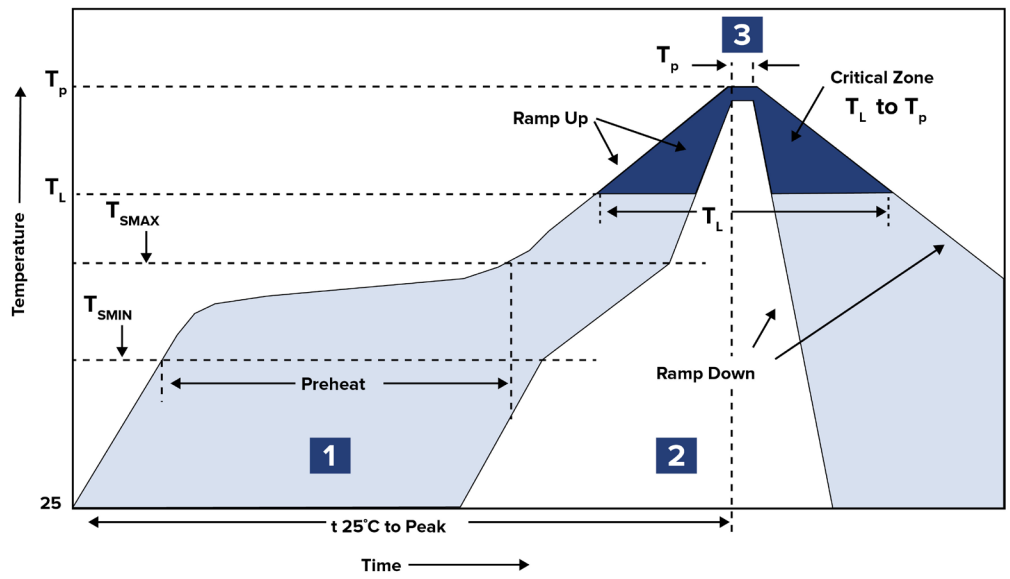
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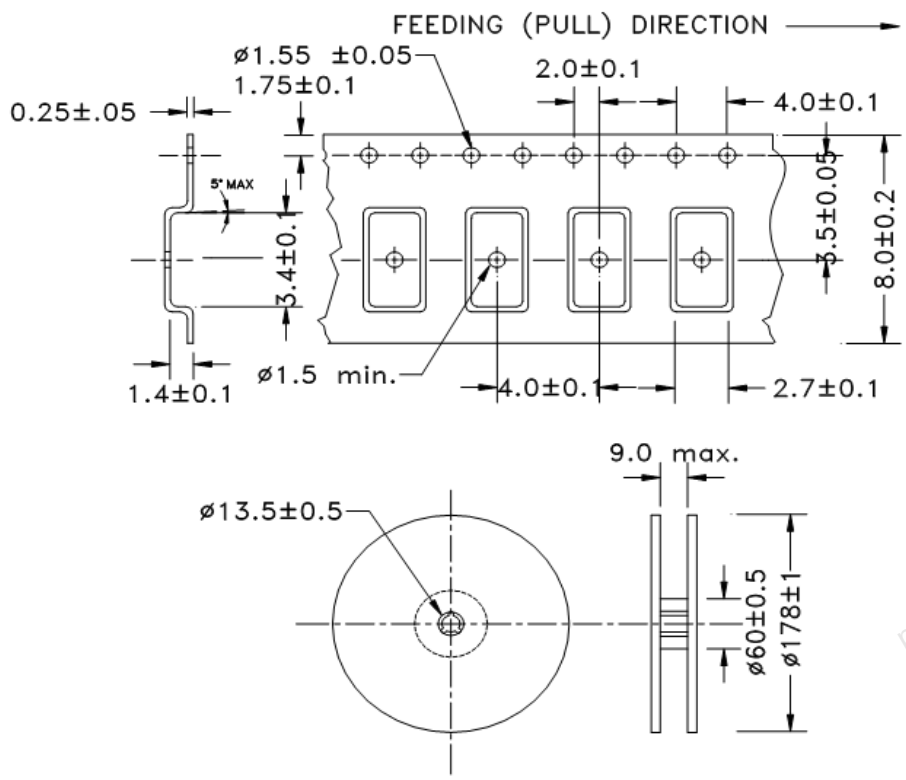
REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat / Soak	T_{SMIN} ~ T_{SMAX} 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T_L 230°C	30 ~ 40 sec.
3	Peak Heat	T_P 260°C ±5°C	10 sec. MAX.

PACKAGING:

T: Tape and reel (1,000 pcs/reel)
T3: Tape and reel (3,000 pcs/reel)



Dimensions: mm

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