

# CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL



ABM7

6.0 x 3.5 x 1.4mm

ABM7

Pb in Glass

(exempt per RoHS 2002/95/EC Annex (5))

**RoHS**  
Compliant

## FEATURES:

- Low in height (1.4 mm max.)
- Ceramic package assures high reliability
- Small size SMD, suitable for high density applications
- Superior heat-resistant glass sealing
- Wide operating temperature available

## APPLICATIONS:

- Computers, Modems, Communication equipment
- Thin equipment
- Industrial wide temperature applications

## STANDARD SPECIFICATIONS:

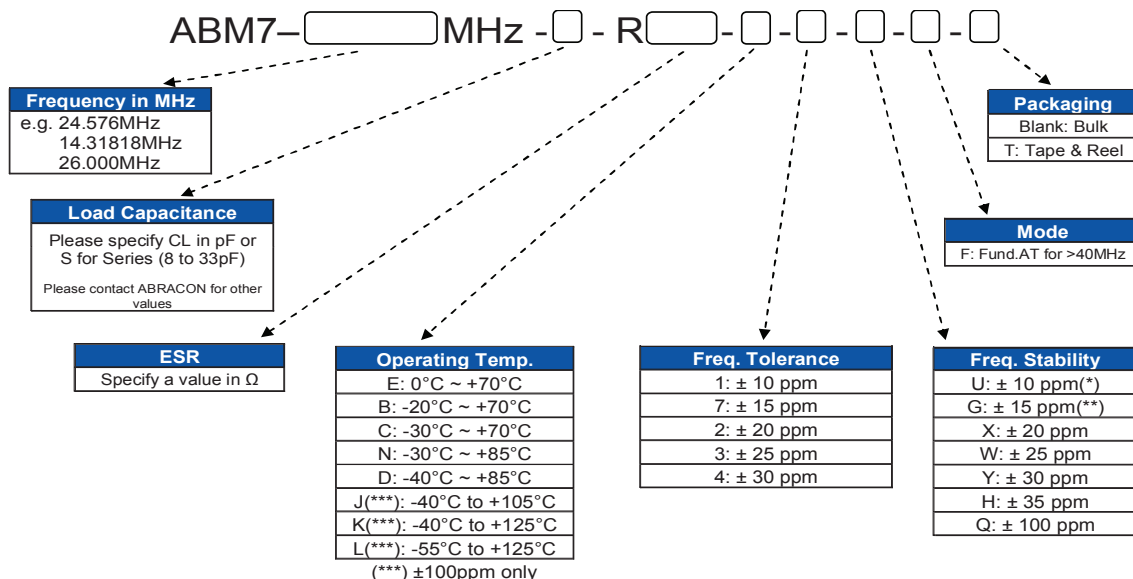
PARAMETERS	
ABRACON P/N	ABM7 Series
Frequency Range	8.00 MHz to 50.00 MHz (*)
Operation Mode	8MHz to 39.999999MHz (Fundamental AT-cut) (Standard) 40MHz to 50MHz (Fundamental AT cut) (See option) 40MHz to 80MHz (3rd OT AT cut) (Standard)
Operating Temperature	-10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 85°C
Frequency Tolerance at +25°C	± 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C)	± 50 ppm max. (see options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	18pF (see options)
Drive Level	100 µW max., 10µW typical
Aging at 25°C First Year	± 5ppm max.
Insulation Resistance	500 MΩ min. with 100Vdc

TABLE 1

Frequency (MHz)	ESR (Ω)	Frequency (MHz)	ESR (Ω)
8.000 - 9.999 (Fund.)	80	16.000 - 50.000 (Fund.)	50
10.000 - 15.999 (Fund.)	60	40.000 - 80.000 (3rd OT)	70

(\*) Frequency above 40MHz based on availability. Please contact ABRACON

## OPTIONS AND PART IDENTIFICATION (Left blank if standard)



ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 03.23.10**  
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ABM7

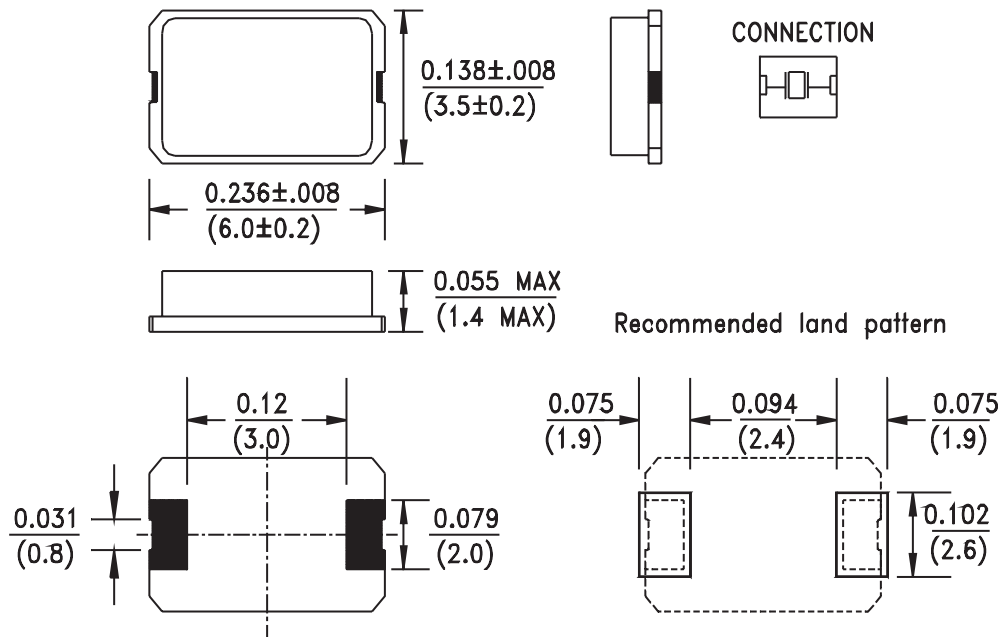
6.0 x 3.5 x 1.4mm

ABM7

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**RoHS**  
Compliant

## OUTLINE DRAWING:

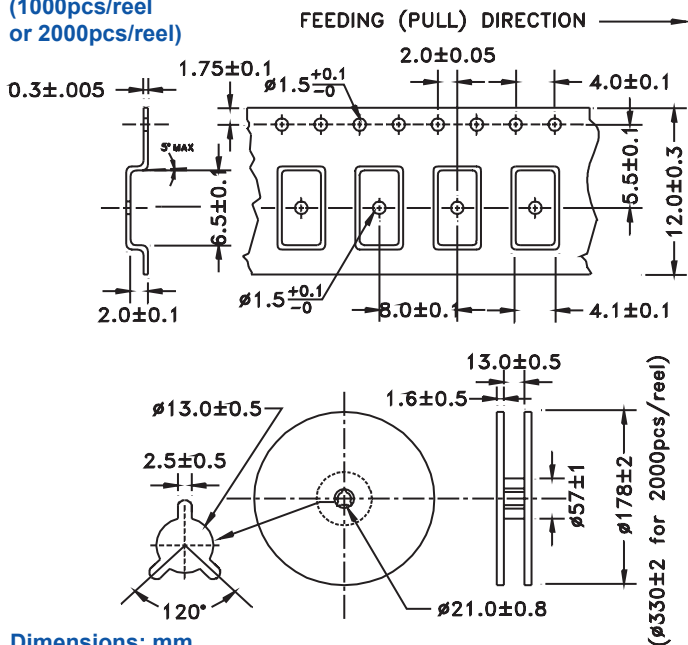


**Note:** Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 1. Be advised that this does not affect the electrical characteristics of the crystal in any way.

Dimensions: inch (mm)

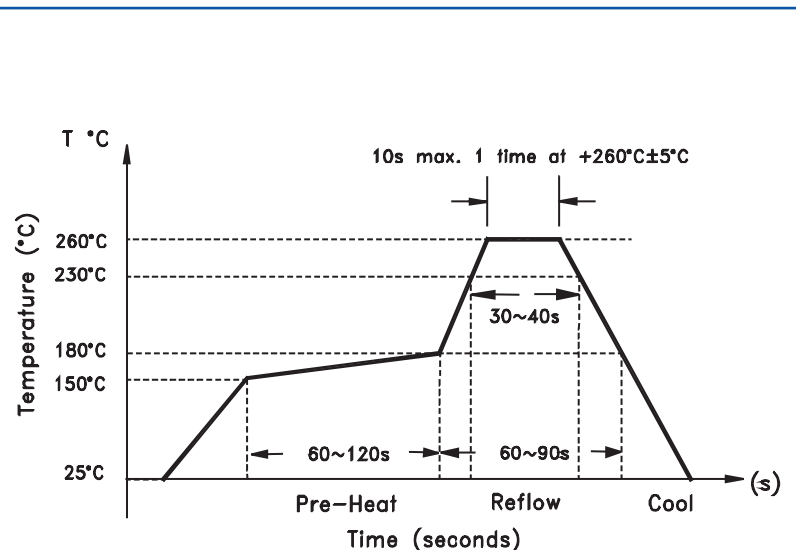
## TAPE & REEL:

Tape and reel  
(1000pcs/reel  
or 2000pcs/reel)



Dimensions: mm

## REFLOW PROFILE:



**NOTE:** Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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