

# CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

**ABM7**Pb in Glass  
(exempt per RoHS 2002/95/EC Annex (5))**RoHS**  
Compliant

6.0 x 3.5 x 1.4mm

## 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:

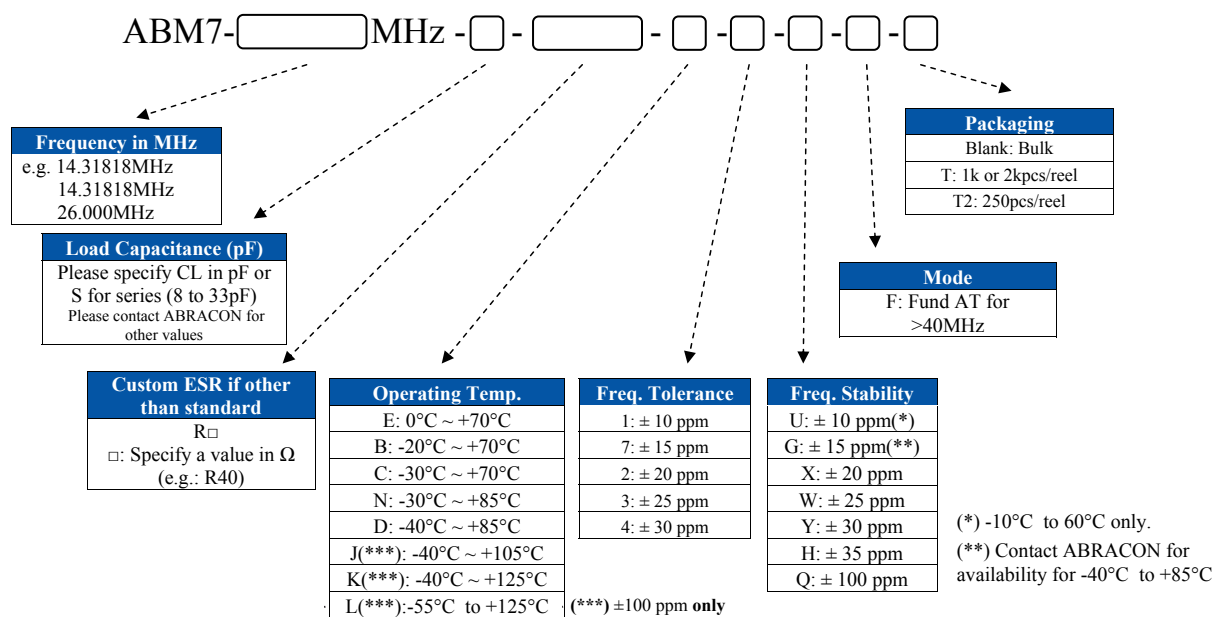
| Parameters                                                          | Minimum           | Typical | Maximum    | Units | Notes                                |
|---------------------------------------------------------------------|-------------------|---------|------------|-------|--------------------------------------|
| Frequency Range                                                     | 8.000             | -----   | 50.000 (*) | MHz   | Fundamental                          |
| Operation mode                                                      | 8.000             | -----   | 39.999999  |       | Fundamental AT-cut (Standard)        |
|                                                                     | 40.000            | -----   | 80.000     |       | 3 <sup>rd</sup> OT AT-cut (Standard) |
|                                                                     | 40.000            | -----   | 50.000     |       | Fundamental AT-cut (See options)     |
| Operating Temperature                                               | -10               | -----   | +60        | °C    | See options                          |
| Storage Temperature                                                 | -40               | -----   | +90        | °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                                        | See table 1 below |         |            | Ω     | -----                                |
| Shunt capacitance (C0)                                              | -----             | -----   | 7          | pF    | -----                                |
| Load capacitance (CL)                                               | -----             | 18      | -----      | pF    | See options                          |
| Drive Level                                                         | -----             | 10      | 100        | μW    |                                      |
| Aging@25°C±3°C                                                      | -----             | -----   | ±5         | ppm   | First year                           |
| Insulation Resistance                                               | 500               | -----   | -----      | MΩ    | @ 100Vdc                             |

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

**Table 1**

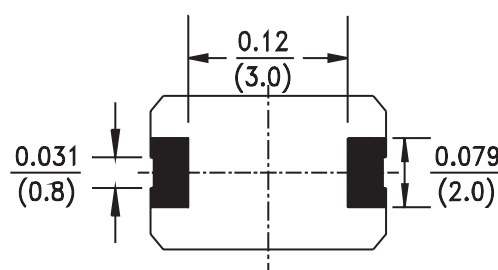
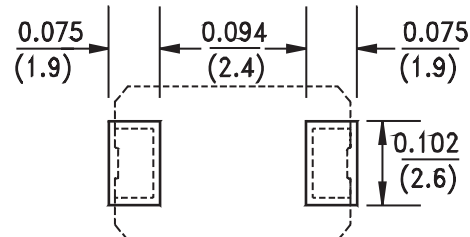
| Frequency (MHz) | ESR(Ω) max. | Operation Mode           |
|-----------------|-------------|--------------------------|
| 8.000 – 9.999   | 100         | Fundamental              |
| 10.000 – 15.999 | 60          | Fundamental              |
| 16.000 – 50.000 | 50          | Fundamental              |
| 40.000 – 80.000 | 70          | 3 <sup>rd</sup> Overtone |

## OPTIONS AND PART IDENTIFICATION: (left blank if standard)

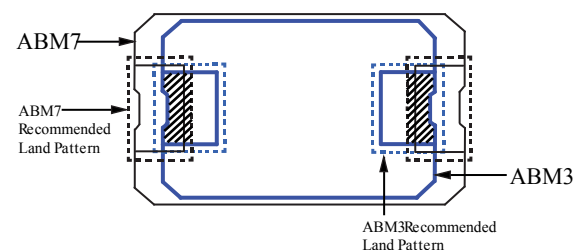


6.0 x 3.5 x 1.4mm

## OUTLINE DRAWING:



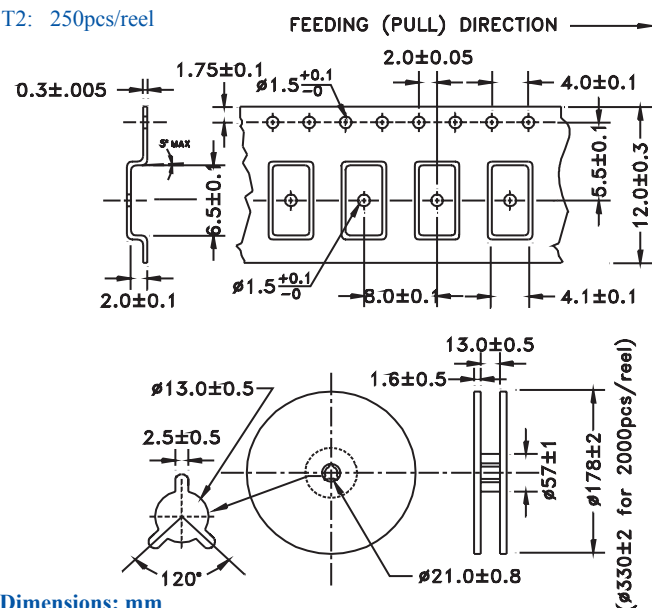
### Land pattern compatibility between ABM3 and ABM7



Dimensions: inch (mm)

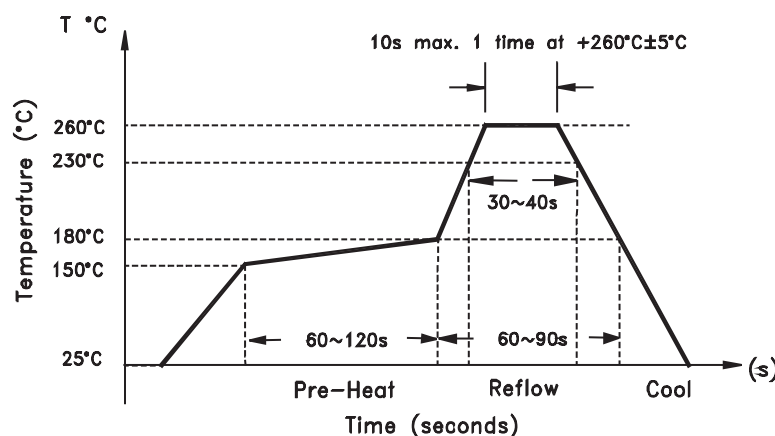
## TAPE & REEL:

T2: 250pcs/reel



**Dimensions: mm**

## REFLOW PROFILE:



ABRACON IS  
ISO9001:2008  
CERTIFIED



# ABRACON CORPORATION

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