

# CERAMIC SURFACE MOUNT MICROPROCESSOR CRYSTAL

ABMM



RoHS  
Compliant



7.0 x 5.0 x 1.3 mm

## FEATURES:

- Suitable for RoHS reflow
- Low height 1.3 mm max
- AT-strip cut offers a tight tolerance & stability

## APPLICATIONS:

- Computers, Modems, Microprocessors
- Communication, Test equipment
- PCMCIA

## STANDARD SPECIFICATIONS:

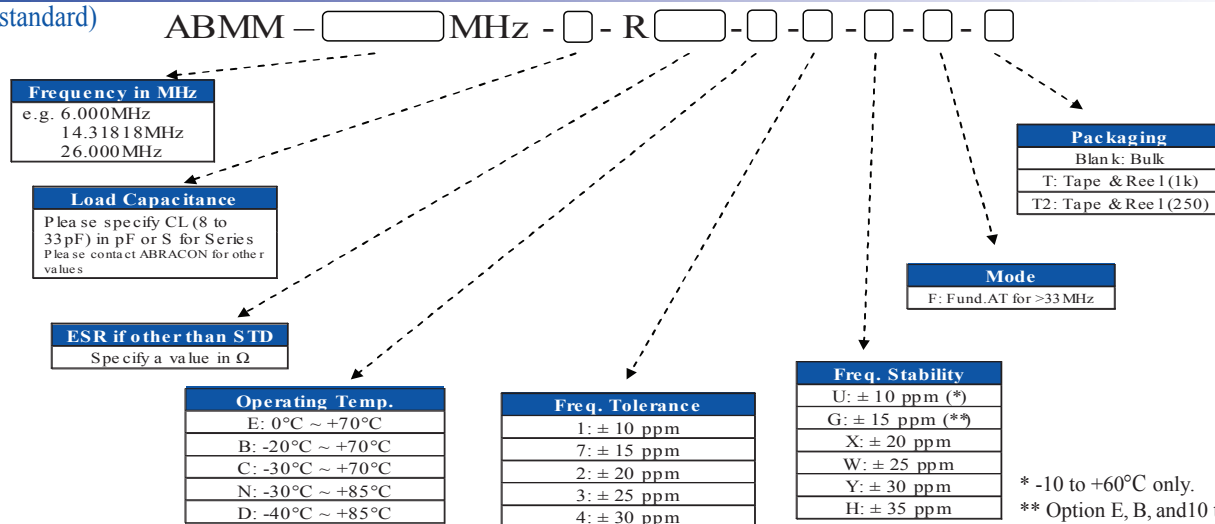
| PARAMETERS                                                  |                                                                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ABRACON P/N                                                 | ABMM                                                                                                                                                                      |
| Frequency Range                                             | 6.0 MHz to 125 MHz                                                                                                                                                        |
| Operation Mode                                              | AT-cut<br>6.0 MHz ~ 33.0 MHz (Fundamental: Standard)<br>33.01 MHz - 125 MHz (Third-Overtone: Standard)<br>33.01 MHz ~ 50.0 MHz (Fundamental: Please specify. See options) |
| 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                                                 | 500μW max., 100μW typical                                                                                                                                                 |
| Aging at 25°C (first year)                                  | ± 5ppm max.                                                                                                                                                               |
| Insulation Resistance                                       | 500MΩ min at 100Vdc ± 15V                                                                                                                                                 |

TABLE 1: STANDARD ESR

| Frequency (MHz)       | ESR (Ω) Max | Frequency (MHz)          | ESR (Ω) Max |
|-----------------------|-------------|--------------------------|-------------|
| 6.000 - 11.999(Fund)  | 70          | 20.000 - 50.000(Fund)    | 40          |
| 12.000 - 20.000(Fund) | 50          | 33.000 - 125.00(3rd O/T) | 80          |

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



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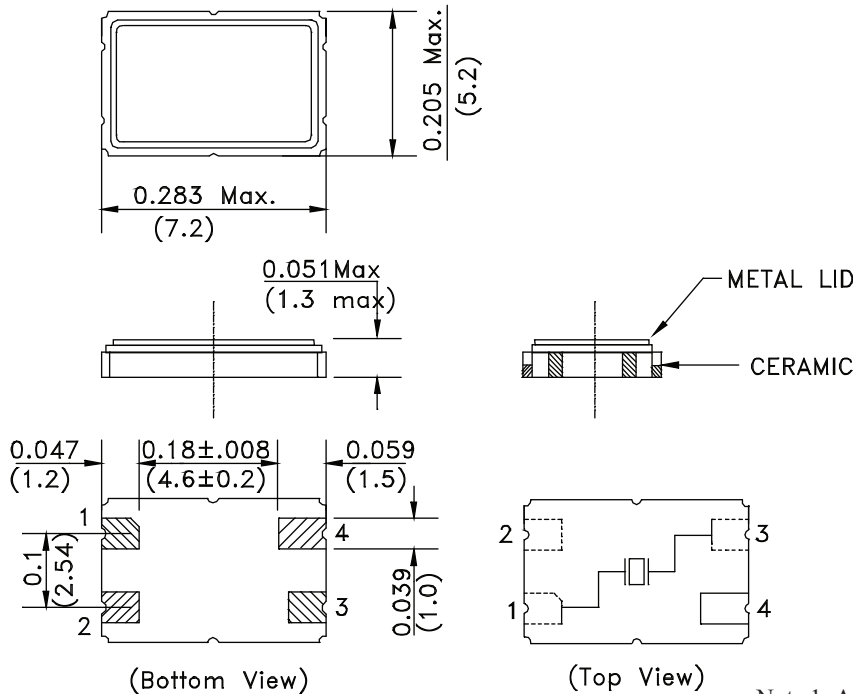


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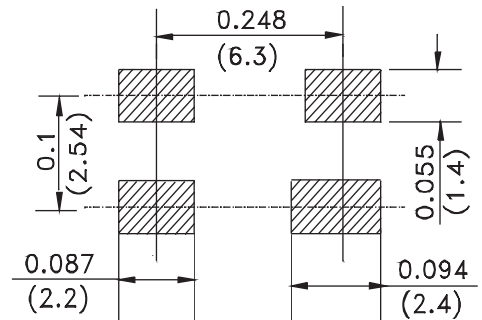


7.0 x 5.0 x 1.3 mm

## OUTLINE DRAWING:



## Recommended Land Pattern



Dimension : Inches (mm)

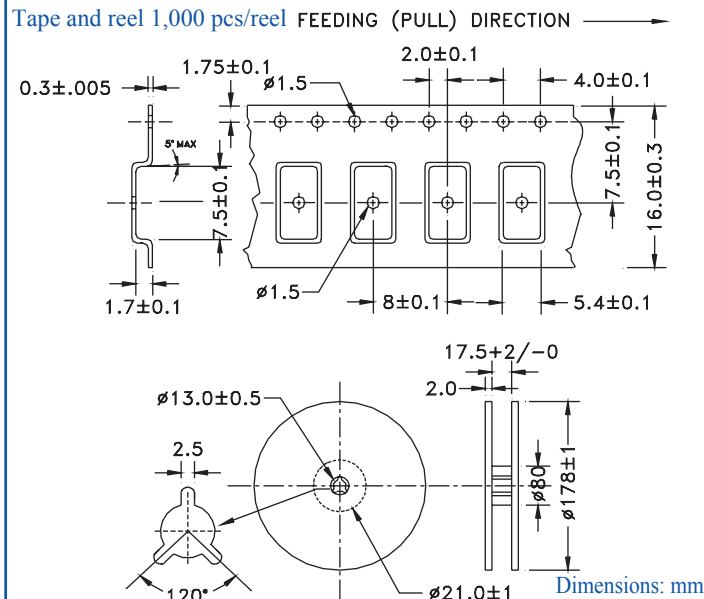
Pads 2 and 4 are connected to metal lid.

Note 1: A longer pad (1.5mm) may appear on either pad 2, 3, or 4.

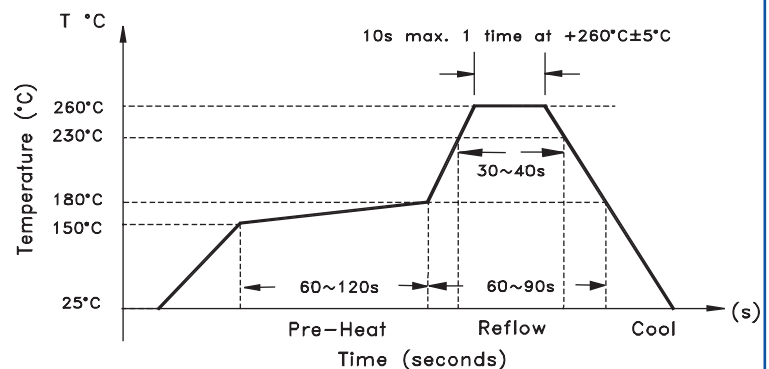
Note 2: A chamfer of 0.3mm may appear on pad 1 or 2.

Note 3: Pads 2 and 4 are connected to the metal lid.

## TAPE & REEL:



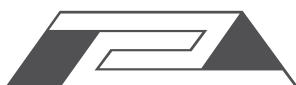
## REFLOW PROFILE:



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

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