

# CERAMIC SURFACE MOUNT MICROPROCESSOR CRYSTAL



7.0 x 5.0 x 1.3 mm

ABMM



RoHS  
Compliant

## FEATURES:

- Suitable for reflow
- Low in height - suitable for thin equipment
- 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 (see option) Fundamental 6.0 MHz - 33.0 MHz Third-Overtone for F ~ 33.01 MHz - 125 MHz
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 Table 1); ± 100 ppm @ -10 °C to + 60° C for Fundamental BT
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 Per Year	± 5ppm max.
Insulation Resistance	500MW min at 100Vdc ± 15V

TABLE 1

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

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ABMM - Frequency - □ - R□□□ - □ - □ - □ - □ - □

Frequency
XX.XXXX MHz

Load Capacitance
Please specify CL in pF or S for Series

Custom ESR
RXXX (Value in Ω) If it is custom

Operating Temp.	Temp. Range
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	Value
1	± 10 ppm max.
7	± 15 ppm max.
2	± 20 ppm max.
3	± 25 ppm max.
4	± 30 ppm max.

Freq. Stability	Value
U**	± 10 ppm max.
G***	± 15 ppm max.
X	± 20 ppm max.
W	± 25 ppm max.
Y	± 30 ppm max.
H	± 35 ppm max.

\*\* -10°C TO 60°C only

\*\*\* Temp option E and B only

Packaging	
Blank	Bulk
T	Tape & Reel

Mode	
F	Fund.AT>=33MHz
FB	Fund BT*

(\*) Note: ±100ppm max stability from -10°C to +60°C only.

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



**ABRACON**  
CORPORATION

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ABMM

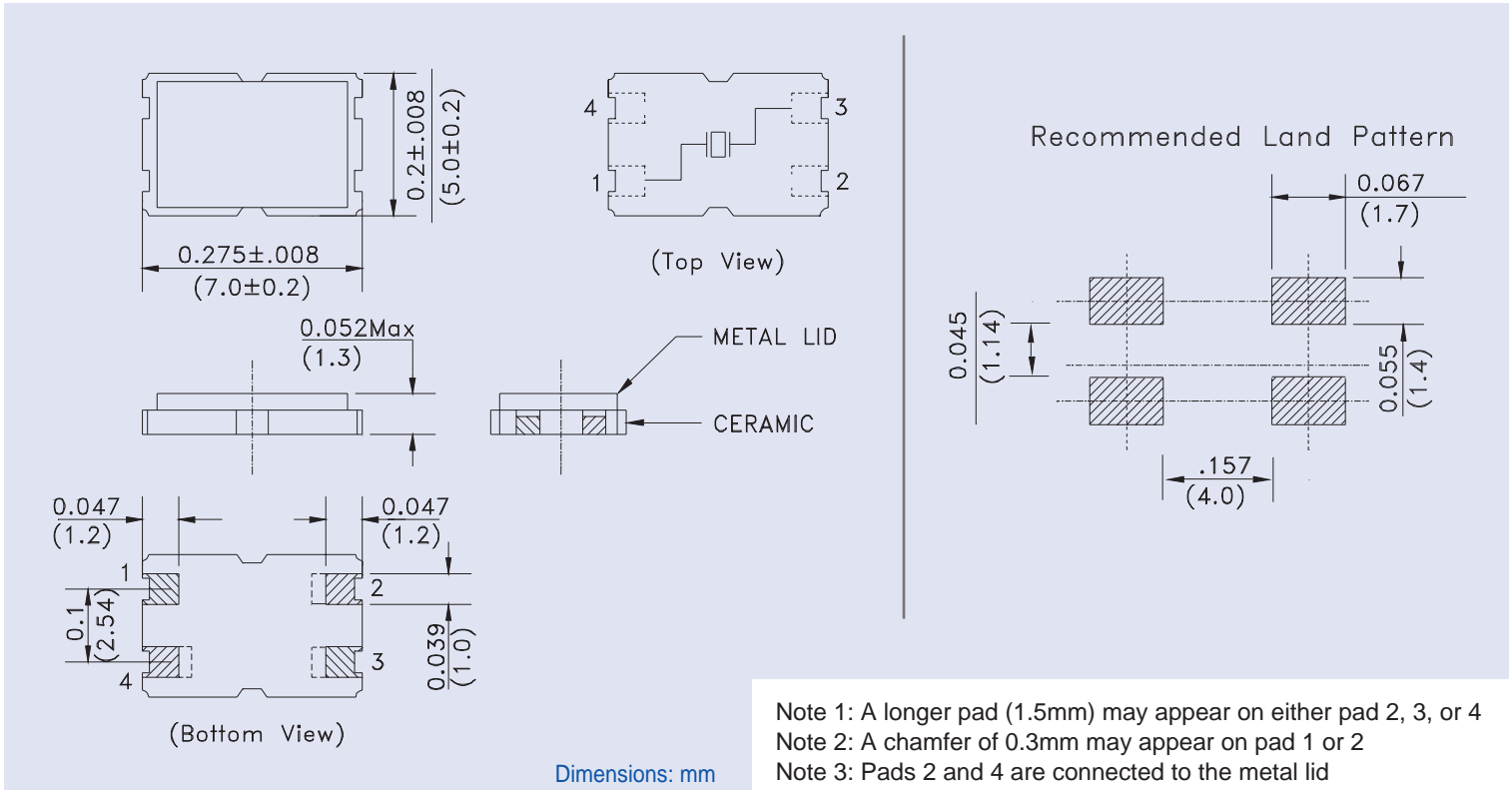


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## OUTLINE DRAWING:



## TAPE & REEL: Tape and reel 1,000 pcs/reel

