

# CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

ABMM2



6.0 x 3.6 x 1.2 mm



RoHS Compliant

## FEATURES:

- Suitable for solder reflow
- Low in height - suitable for thin equipment
- ATstrip cut offers a tight tolerance & stability

## APPLICATIONS:

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

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N	ABMM2 Series
Frequency Range	8.00 MHz - 110.00 MHz
Operation Mode	8.00 MHz ~ 50.00 MHz (Fundamental) 30.01 MHz ~ 100.00 MHz (3rd Overtone) 90.00 MHz ~ 110.00 MHz (5th Overtone)
Operating Temperature	-10°C to +60°C (See Options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance @ 25°C	± 20 ppm max. (See Options)
Frequency Stability over Operating Temp. (Ref to +25°C)	± 20 ppm max. (See Table 1)
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 correlation
Aging at 25°C First Year	± 2ppm max.
Insulation Resistance	500MΩ min. @ 100Vdc ± 15V

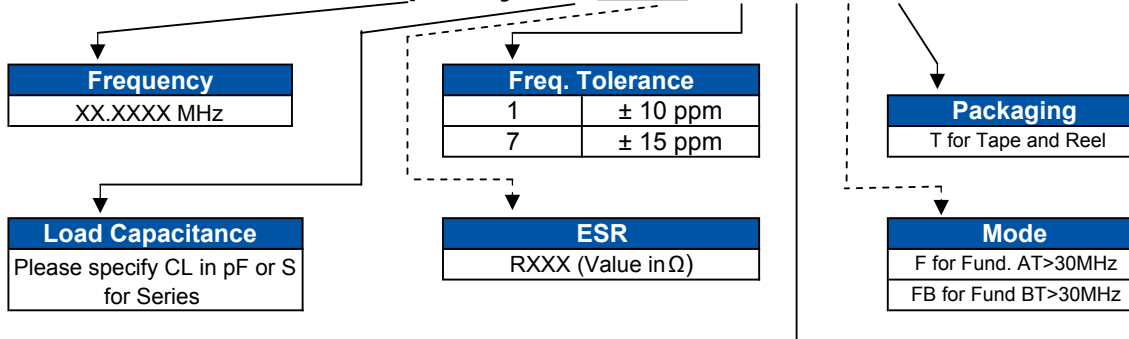
TABLE 1

Frequency (MHz)	ESR (Ω)
8.0 - 9.9 (Fund)	72
10.0 - 50.0 (Fund)	50
30 - 100 (3rd OT)	60
90 - 110 (5th O/T)	80

## OPTIONS & PART IDENTIFICATION:

[Left blank if standard]

ABMM2 - Frequency -  - R -  -  -  -  -



Frequency -vs.- Temperature				
Temp. Range °C	±4 ppm max.	±5 ppm max.	±10 ppm max.	±20 ppm max.
0°C to +50°C	A1	A2	A3	A4
-10°C to +50°C	B1	B2	B3	B4
-10°C to +60°C		C2	C1	Standard
-20°C to +70°C			E1	E2
-40°C to +85°C				D1

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



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Revised: 05.01.07

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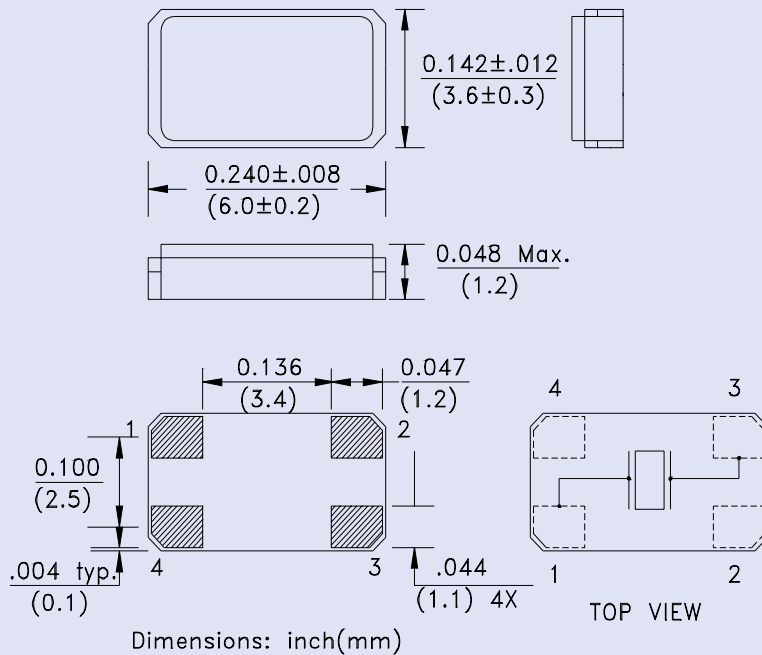


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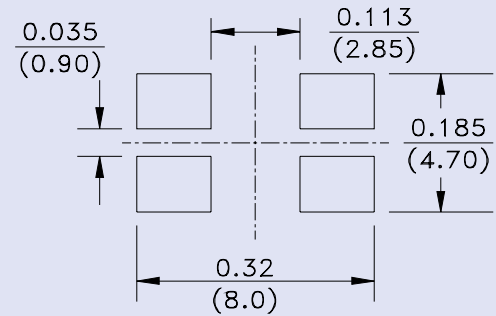


6.0 x 3.6 x 1.2 mm

## OUTLINE DRAWING:

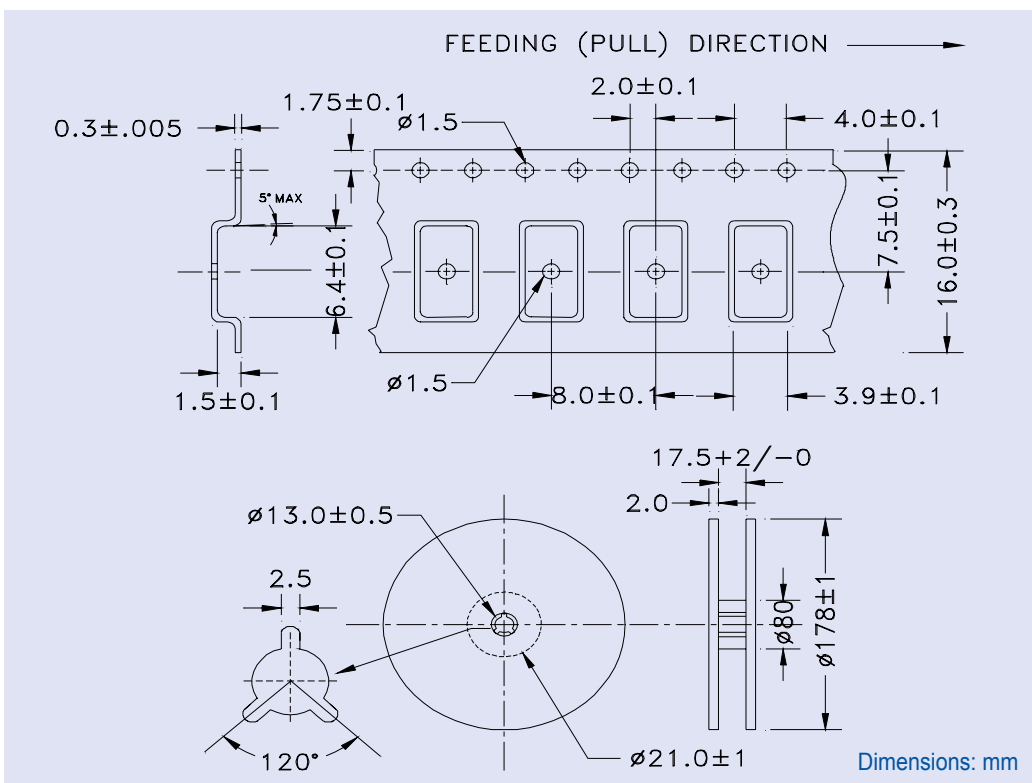


Recommended land pattern



Note 1: A chamfer of 0.3mm may appear on pad 4.  
Note 2: A rounded pad may appear on pad 1.

## TAPE & REEL:



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