

CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

ABMM2

 RoHS/RoHS II Compliant

ABMM2



6.0 x 3.6 x 1.2 mm

FEATURES:

- Suitable for RoHS compliant reflow
- Low height 1.2 mm max
- Seam sealed ceramic package assures high reliability
- Available tight tolerance and stability

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		7.3728		110.00	MHz	
Operation Mode	7.3728 – 30.00MHz	Fundamental				Standard
	30.01 – 100.00MHz	3 rd Overtone				Standard
	100.01 – 110.00MHz	5 th Overtone				Standard
	30.01 – 50.00MHz	Fundamental				See options
Operating Temperature		-10		+60	°C	See options
Storage Temperature		-40		+85	°C	
Frequency Tolerance @+25°C		-20		+20	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)		-20		+20	ppm	See options
Equivalent series resistance (R1)		See table 1 below			Ω	
Shunt capacitance (C0)				7.0	pF	
Load capacitance (CL)			18.0		pF	Standard (See options if other than STD)
Drive Level			100	500	μW	
Aging		-2		+2	ppm	@25°C±3°C First year
Insulation Resistance		500			MΩ	@ 100Vdc ± 15V

TABLE 1- Standard ESR

Frequency (MHz)	ESR(Ω) max
7.3728 -7.999999 (Fund)	150
8.000 -9.999999 (Fund)	72
10.000 -50.000 (Fund)	50
30.000 – 100.000 (3 rd OT)	60
100.001 – 110.000 (5 th OT)	80



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OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ABMM2 - MHz - - - - -

Frequency in MHz

Please specify the frequency in MHz.
e.g. 16.000MHz

Packaging

Blank: Bulk
T: 1000pcs / reel
T2: 250pcs / reel

Load Capacitance (pF)

Please specify CL in pF
(8 to 33pF) or S for series
Please contact Abracon
for other values

Freq. Stability

Blank: Standard
F; fund. AT for
F>30MHz

Custom ESR if other than standard

R□
□: Specify a value in
Ω (e.g.: R40)

Freq. Tolerance

1: ± 10 ppm
7: ± 15 ppm

Frequency Stability (ppm)

Operating Temp.	±10	±20	±30	±50	±100
0°C ~ +50° C	A3	A4	A6	-----	-----
-10°C ~ +50°C	B3	B4	B6	-----	-----
-10°C ~ +60°C	C1	Std	C6	-----	-----
-20°C ~ +70°C	E1	E2	E6	-----	-----
-40°C ~ +85°C	-----	D1	D6	D5	-----
-40°C ~ +1 05°C	-----	-----	-----	J5	J10
-40°C ~ +1 25°C	-----	-----	-----	K5	K10

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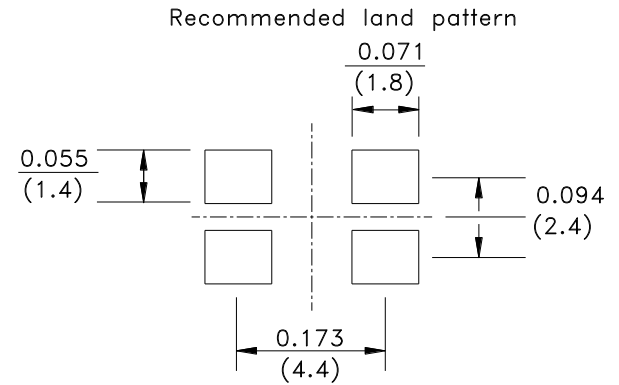
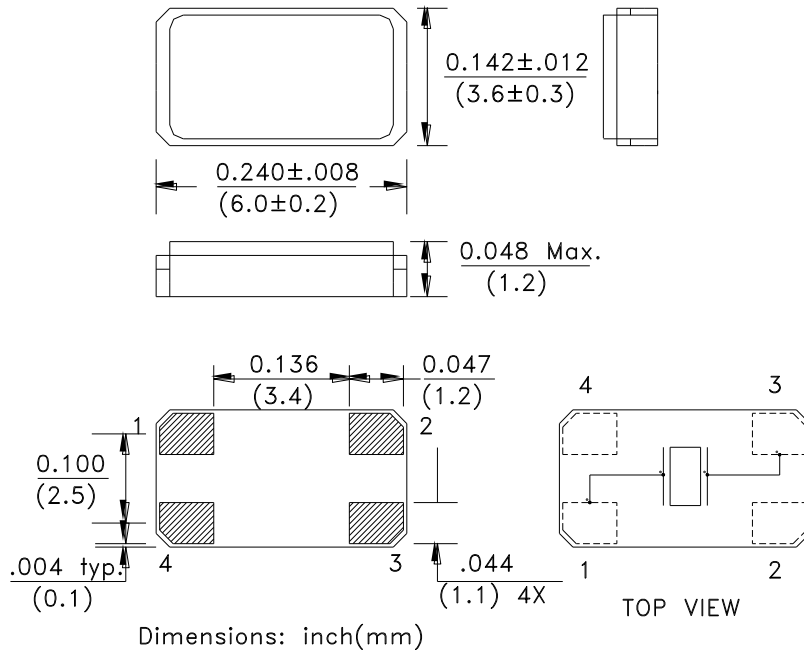
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6.0 x 3.6 x 1.2 mm

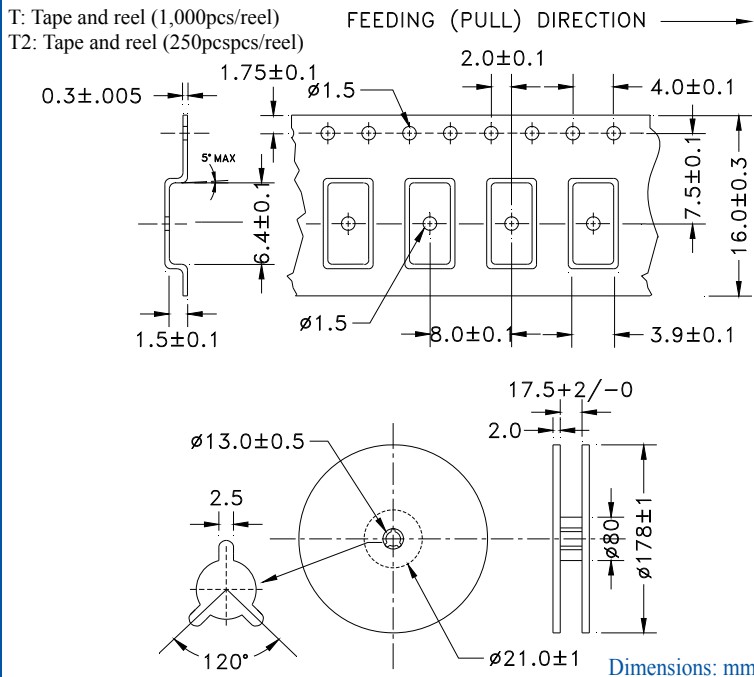
OUTLINE DRAWING:



Dimensions: inches (mm)

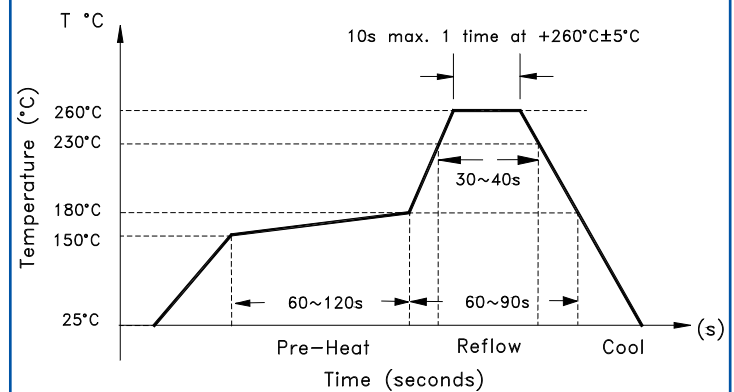
Note 1: A chamfer of 0.3mm may appear on pad 1 or 4
Note 2: A rounded pad may appear on pad 1
Note 3: Pin 2 and 4 are connected to the metal lid.
 Please connect to GND

TAPE & REEL:



Dimensions: mm

REFLOW PROFILE



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