



**THE DATASHEET OF
ABMM2-12.000MHZ-E2-T**



CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

ABMM2



6.0 x 3.6 x 1.2 mm

ABMM2

 RoHS/RoHS II Compliant

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:

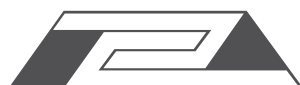
- Computers, Modems, Microprocessors
- Communication, Test equipment
- PCMCIA

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

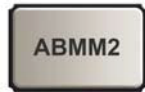
Freq. Stability
Blank: Standard
F; fund. AT for F>30MHz

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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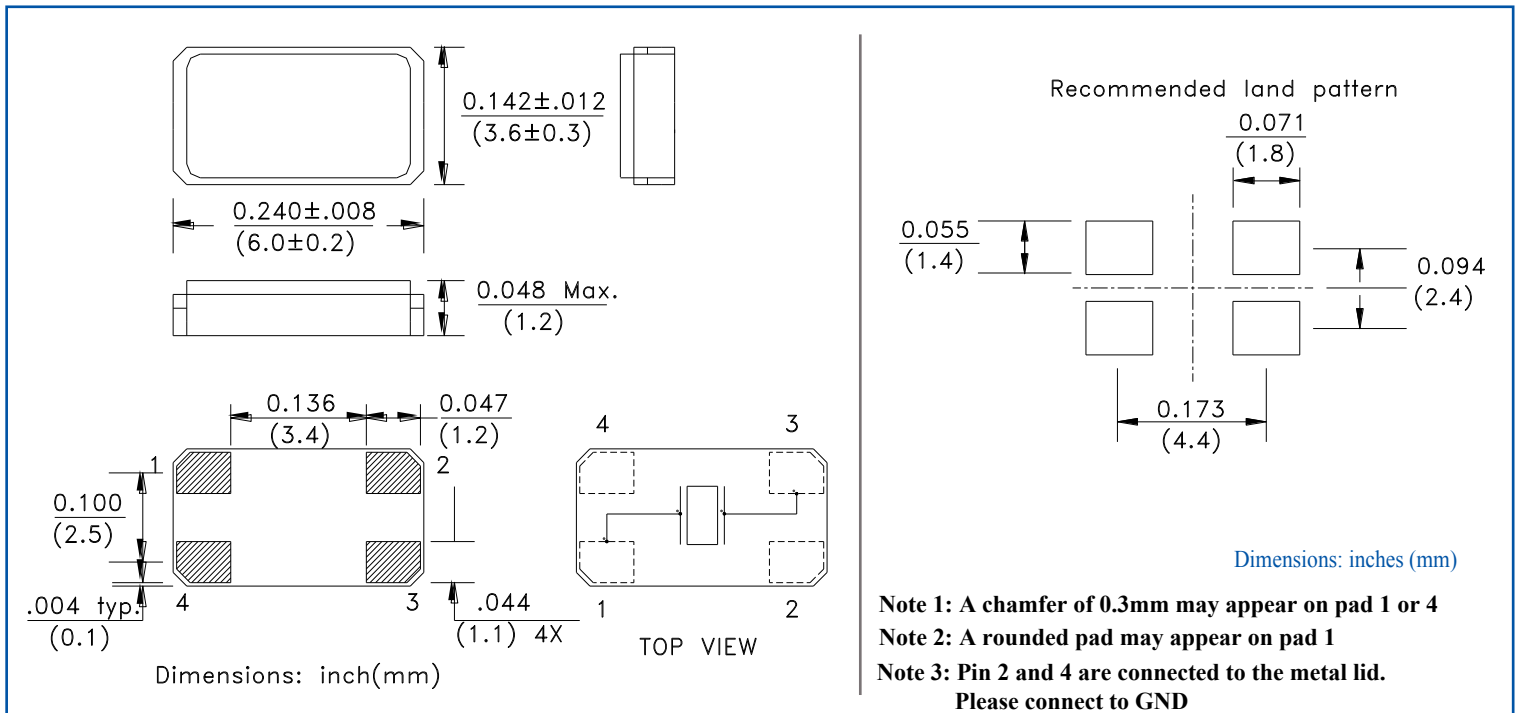


ABMM2

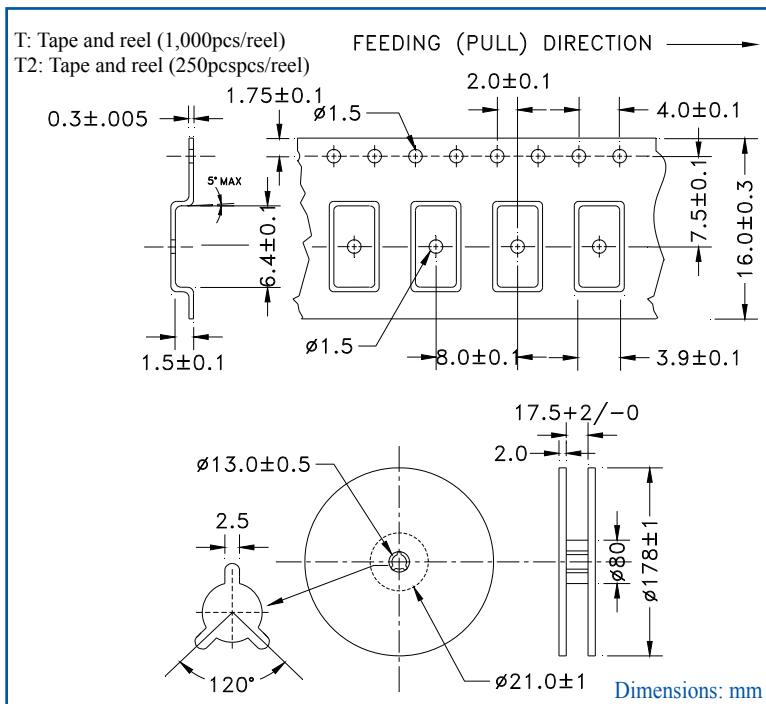
RoHS/RoHS II Compliant

6.0 x 3.6 x 1.2 mm

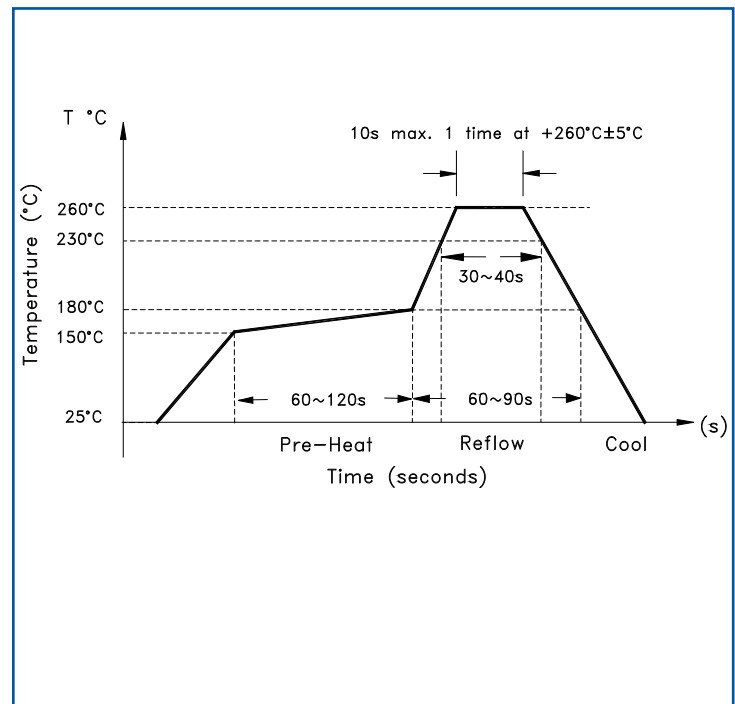
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE



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- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management