



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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 <sup>rd</sup> Overtone			Standard
	100.01 – 110.00MHz	5 <sup>th</sup> 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 <sup>rd</sup> OT)	60
100.001 – 110.000 (5 <sup>th</sup> 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

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

**Custom ESR if other than standard**  
R  
□: Specify a value in Ω (e.g.: R40)

**Freq. Tolerance**  
1: ± 10 ppm  
7: ± 15 ppm

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

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

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

# CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

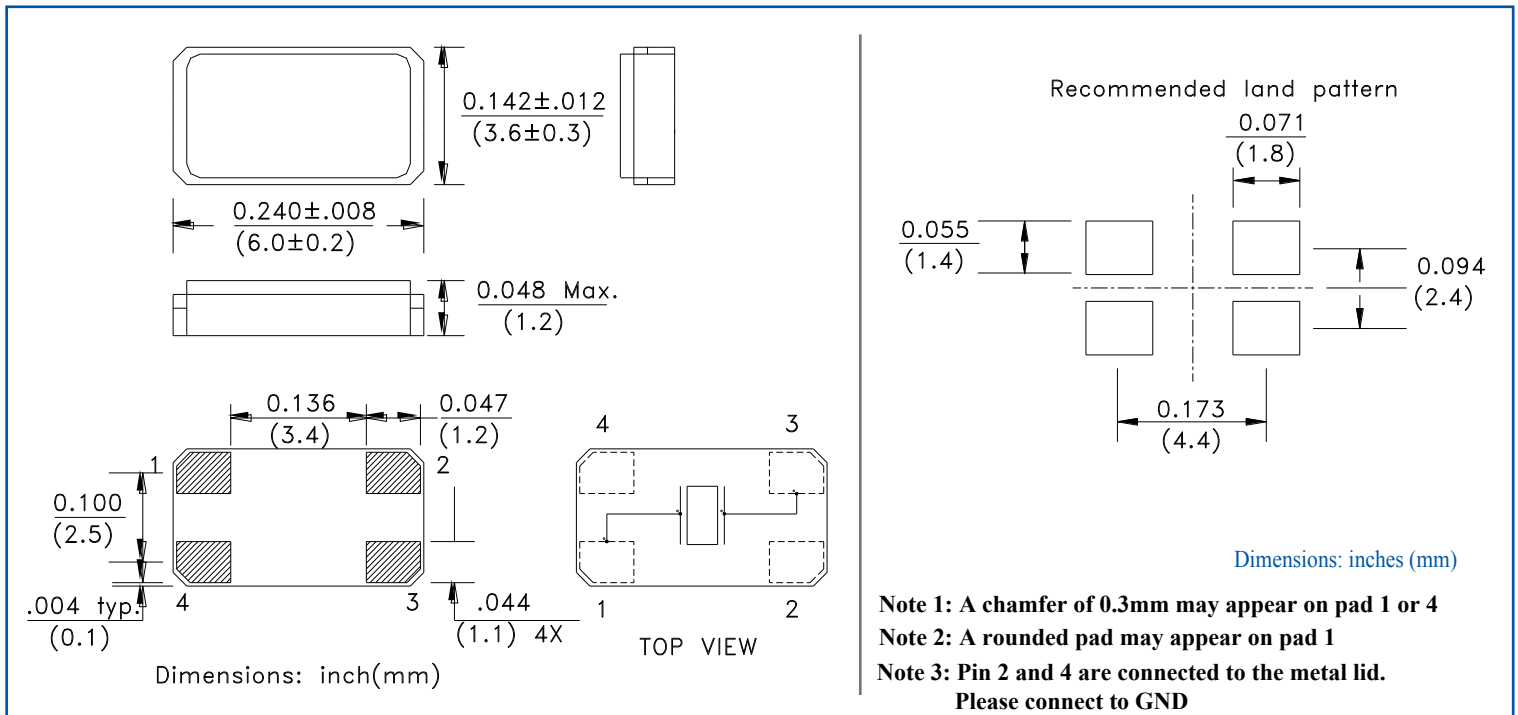


ABMM2

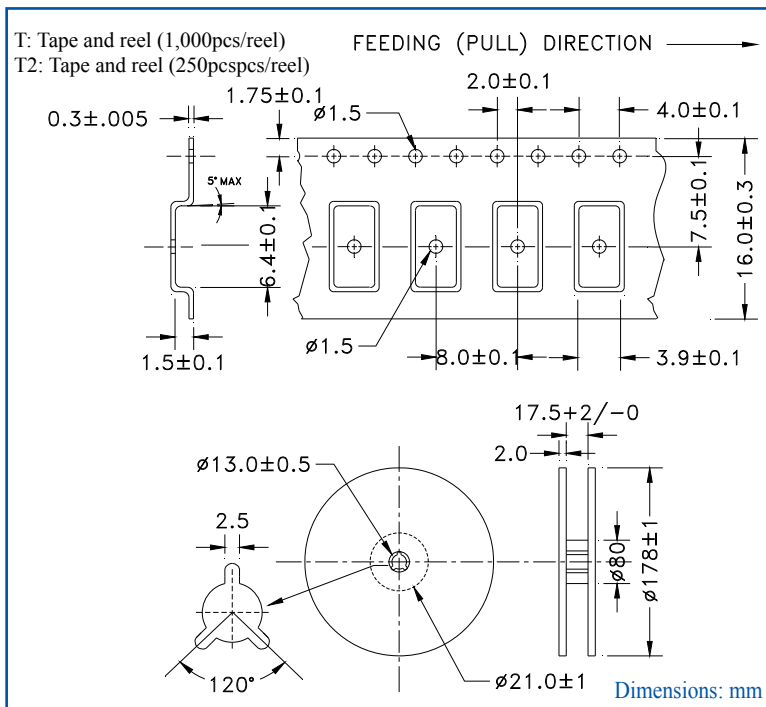
RoHS/RoHS II Compliant

6.0 x 3.6 x 1.2 mm

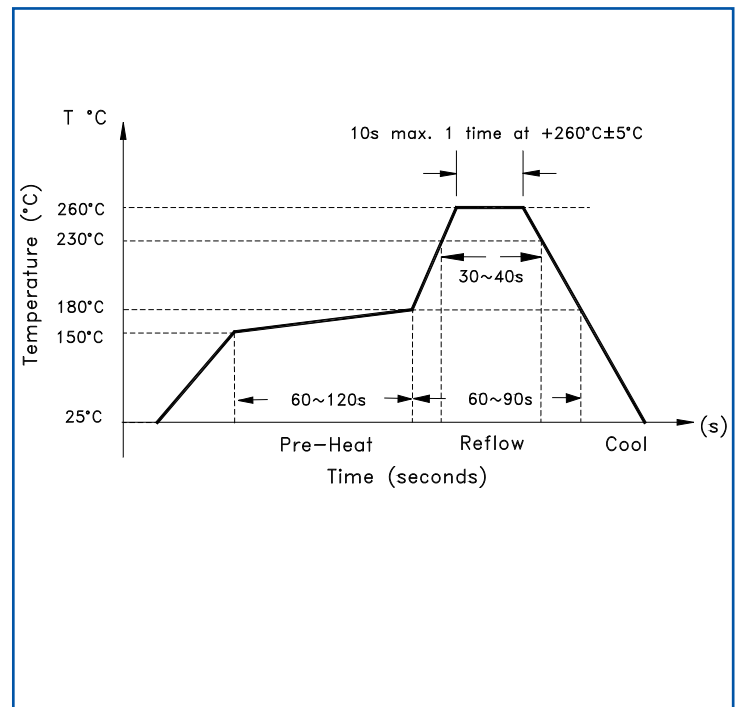
## OUTLINE DRAWING:



## TAPE & REEL:



## REFLOW PROFILE



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