## **CERAMIC SURFACE MOUNT** LOW PROFILE QUARTZ CRYSTALS



Compliant



6.0 x 3.6 x 1.2 mm

ABMM2

ABMM2

#### **FEATURES:**

- Suitable for RoHS compliant reflow
- Low height 1.2 mm max
- Seam sealed ceramic package assures high reliabilityAvailable 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			ΜΩ	@ $100 \text{Vdc} \pm 15 \text{V}$

#### **TABLE 1- Standard ESR**

Frequency (MHz)	$ESR(\Omega)$ max
7.3728 -7.999999 (Fund)	150
8.000 -9.999999 (Fund)	72
10.000 -50.000 (Fund)	50
$30.000 - 100.000  (3^{\text{rd}}  \text{OT})$	60
100.001 – 110.000 (5 <sup>th</sup> OT)	80





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ABMM2

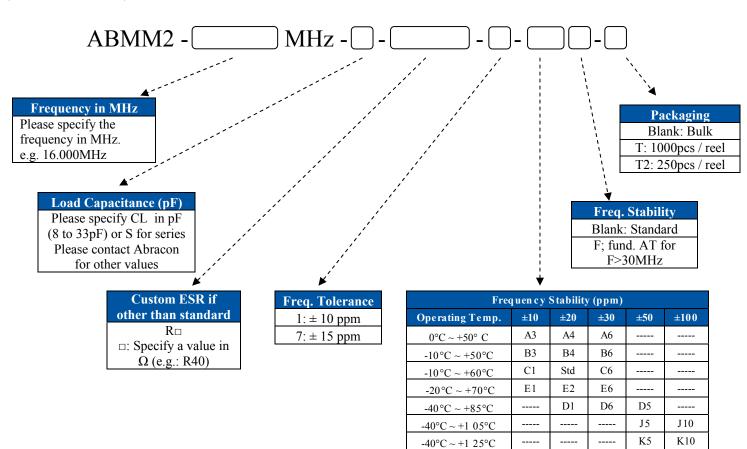




6.0 x 3.6 x 1.2 mm

### **OPTIONS & PART IDENTIFICATION:**

(Left blank if standard)

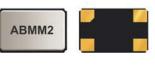




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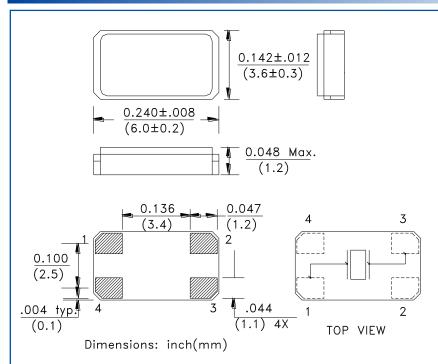
ABMM2

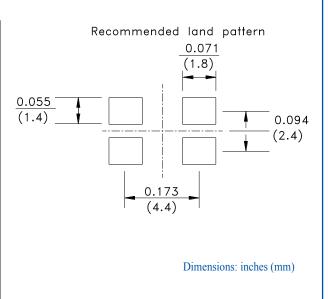




6.0 x 3.6 x 1.2 mm

### **OUTLINE DRAWING:**

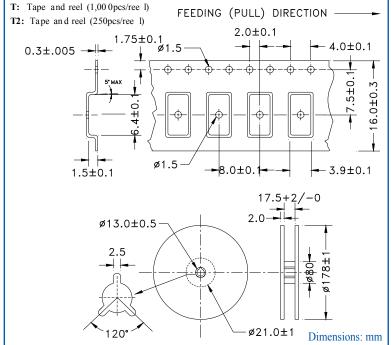


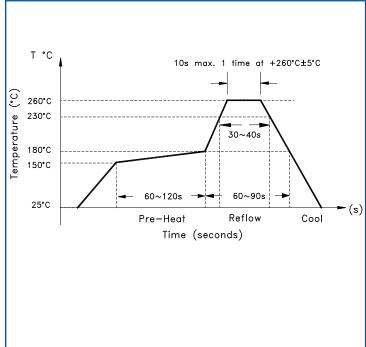


Note 1: A chamfer of 0.3mm may appear on pad 1 or 4 Note 2: A rounded pad may appear on pad 1

### **TAPE & REEL:**

# **REFLOW PROFILE** FEEDING (PULL) DIRECTION





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### **Mouser Electronics**

**Authorized Distributor** 

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### **ABRACON:**

ABMM2-12.000MHZ-B2-T ABMM2-27.000MHZ-B2-T ABMM2-8.000MHZ-B2-T ABMM2-19.6608MHZ-B2-T ABMM2-14.31818MHZ-B2-T ABMM2-24.000MHZ-B2-T ABMM2-10.000MHZ-B2-T ABMM2-12.000MHZ-B2-T ABMM2-16.000MHZ-B2-T ABMM2-11.0592MHZ-B2-T ABMM2-12.000MHZ-B2-T ABMM2-22.000MHZ-B2-T ABMM2-22.000MHZ-B2-T ABMM2-23.000MHZ-B2-T ABMM2-27.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-14.31818MHZ-B2-T ABMM2-16.9344MHZ-B2-T ABMM2-14.7456MHZ-B2-T ABMM2-24.000MHZ-B2-T ABMM2-14.31818MHZ-B2-T ABMM2-10.000MHZ-B2-T ABMM2-14.7456MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-14.7456MHZ-B2-T ABMM2-24.576MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABMM2-25.000MHZ-B2-T ABM8-24.576MHZ-B2-T ABM8-24.576MHZ-B2-T ABM8-24.576MHZ-B2-T ABM8-25.000MHZ-B2-T ABM8-25.00