

CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

ABMM2



RoHS
Compliant

ABMM2



6.0 x 3.6 x 1.2 mm

APPLICATIONS:

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

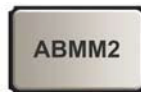


CERAMIC SURFACE MOUNT LOW PROFILE QUARTZ CRYSTALS

ABMM2



RoHS
Compliant



6.0 x 3.6 x 1.2 mm

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 ~ +105°C	-----	-----	-----	J5	J10
-40°C ~ +125°C	-----	-----	-----	K5	K10

ABMM2

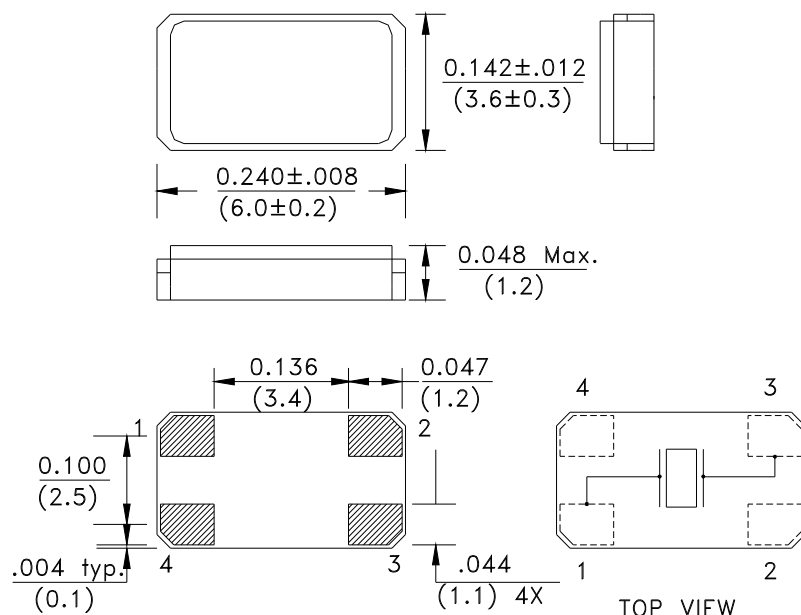


6.0 x 3.6 x 1.2 mm



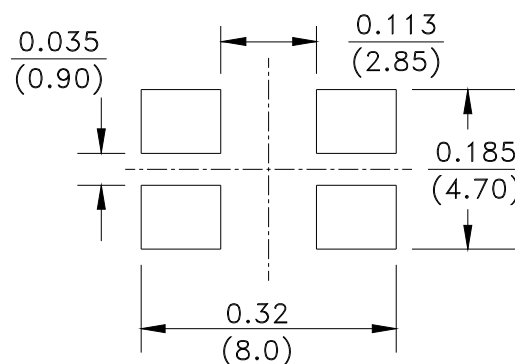
RoHS
Compliant

➤ OUTLINE DRAWING:



TOP VIEW

Recommended land pattern



Dimensions: inches (mm)

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

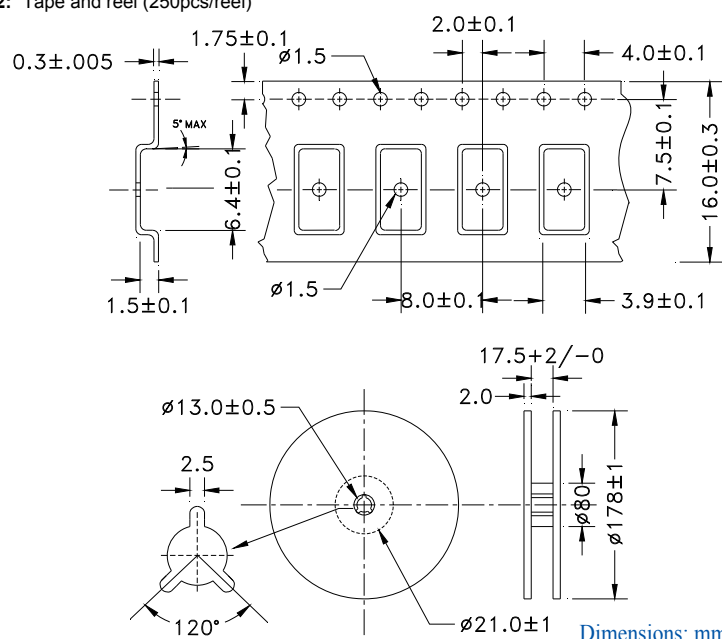
Note 2: A rounded pad may appear on pad 1

➤ **TAPE & REEL:**

T: Tape and reel (1,000pcs/reel)

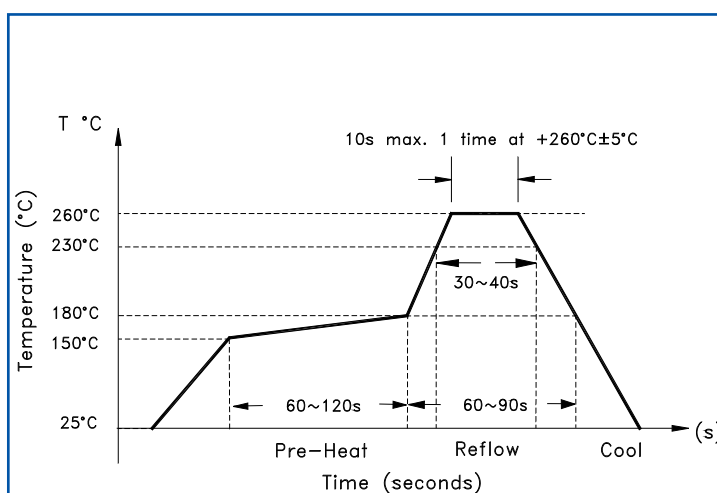
T2: Tape and reel (250pcs/reel)

FEEDING (PULL) DIRECTION



Dimensions: mm

REFLOW PROFILE



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS
ISO9001:2008
CERTIFIED



ABRACON CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 04.12.11