

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

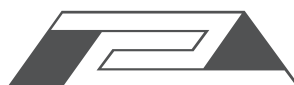
Load Capacitance (pF)
Please specify CL in pF (8 to 33pF) or S for series
Please contact Abracon for other values

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

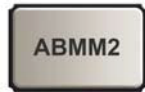
Custom ESR if other than standard
R
□: Specify a value in Ω (e.g.: R40)

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

| Operating Temp. | Frequency Stability (ppm) | | | | |
|-----------------|---------------------------|-------|-------|-------|-------|
| | ±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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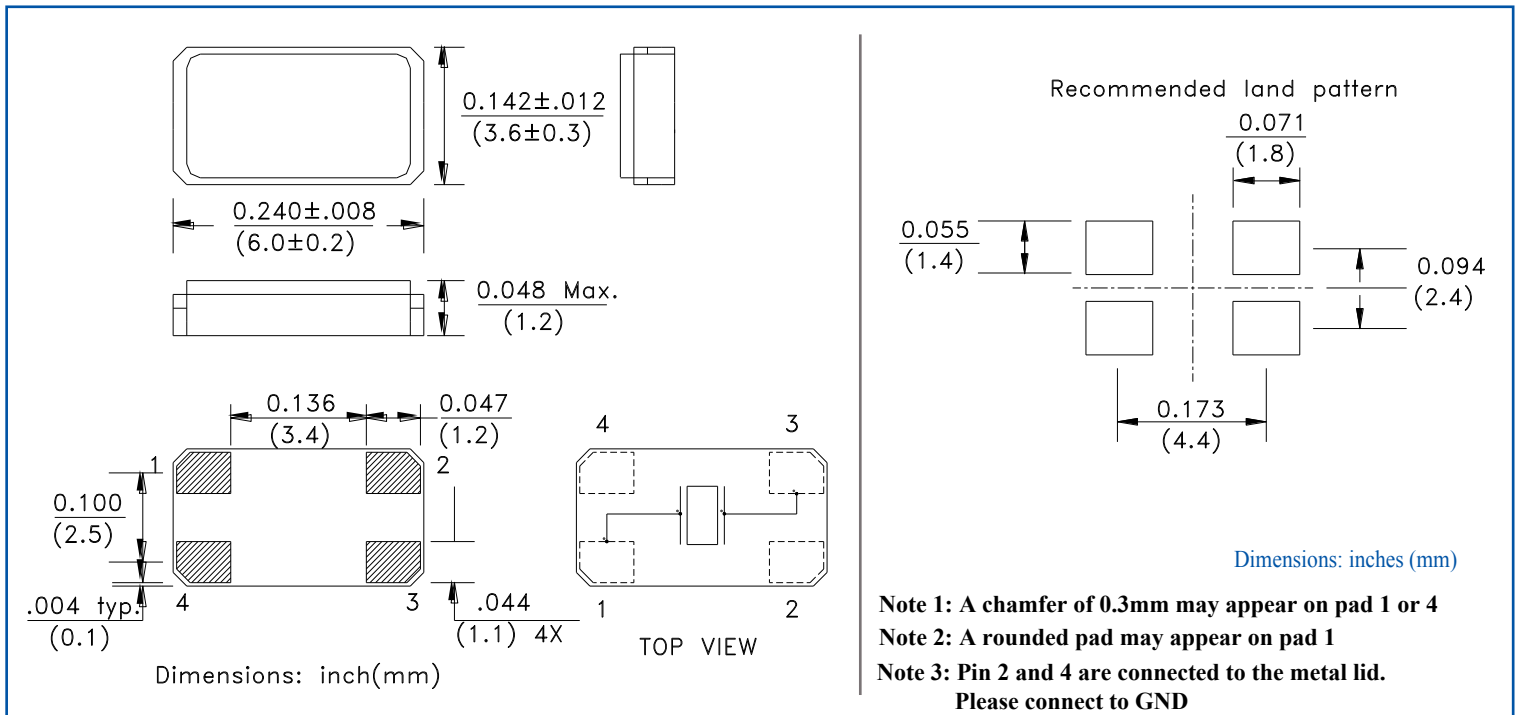


6.0 x 3.6 x 1.2 mm

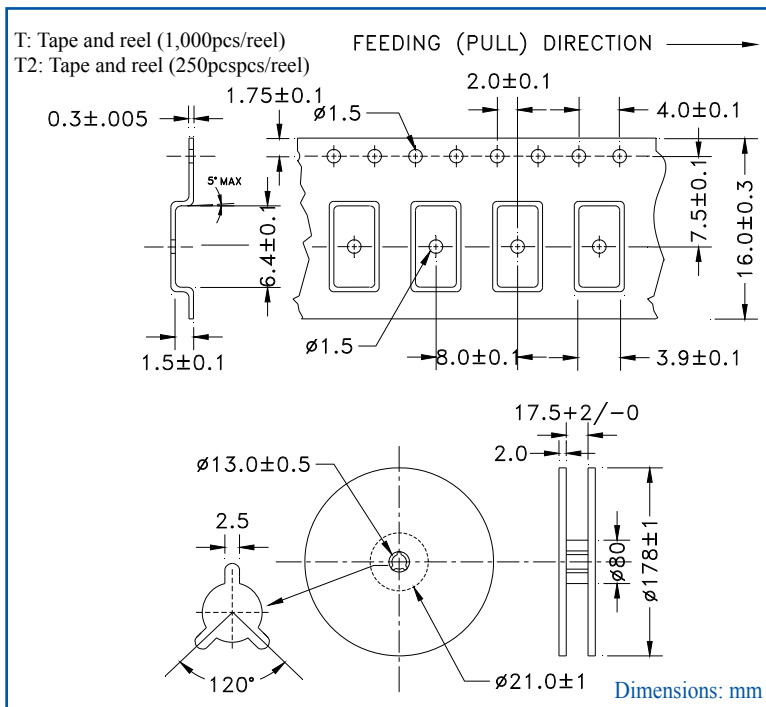
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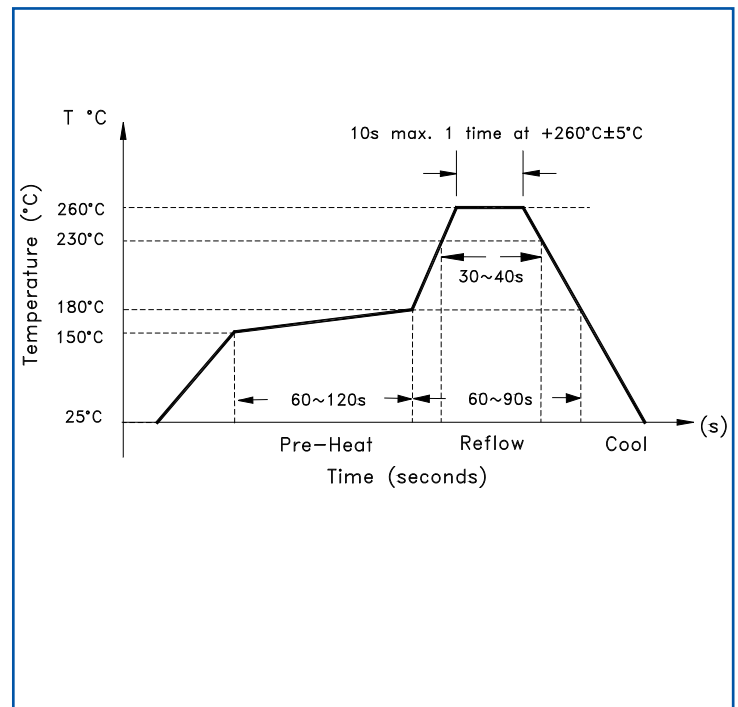
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE



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ABRACON IS
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CERTIFIED



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