

# ULTRA MINIATURE CERAMIC SMD CRYSTAL

ABM12



RoHS/RoHS II Compliant

ABM12



1.6 x 1.2 x 0.45mm

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

## FEATURES:

- Suitable for RoHS reflow profile
- Available tight tolerance and stability
- Electron beam sealed ceramic package assures high precision and reliability
- Smallest package size in industry 1.6 x 1.2 x 0.46mm

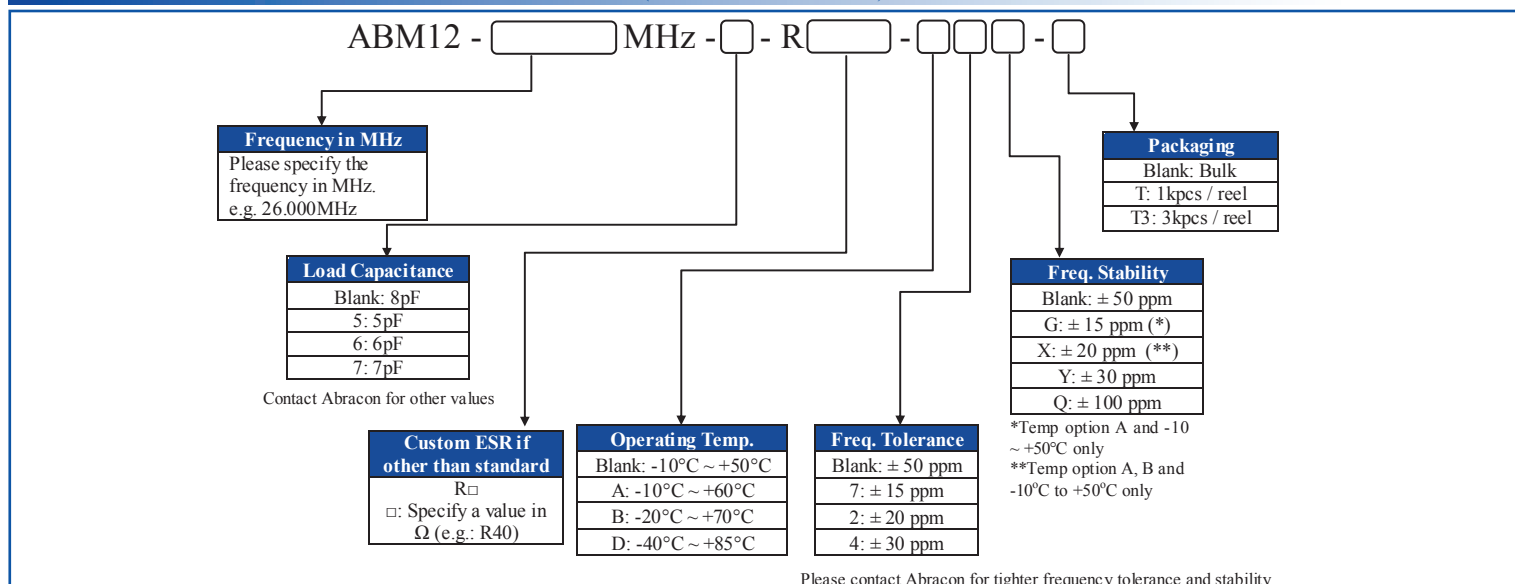
## APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- High density applications
- PCMCIA
- Portable radios and MP3 players

## STANDARD SPECIFICATIONS:

| Parameters                                                          | Minimum                      | Typical | Maximum | Units | Notes                                    |
|---------------------------------------------------------------------|------------------------------|---------|---------|-------|------------------------------------------|
| Frequency Range                                                     | 24.000                       |         | 80.000  | MHz   |                                          |
| Standard Frequencies                                                | 26.000, 32.000 and 36.000MHz |         |         |       | (Contact Abracon for other frequencies)  |
| Operation Mode                                                      | Fundamental                  |         |         |       |                                          |
| Operating Temperature                                               | -10                          |         | +50     | °C    | See options                              |
| Storage Temperature                                                 | -40                          |         | +85     | °C    |                                          |
| Frequency Tolerance @+25°C                                          | -50                          |         | +50     | ppm   | See options                              |
| Frequency Stability over the Operating Temperature ( ref. to +25°C) | -50                          |         | +50     | ppm   | See options                              |
| Equivalent series resistance (R1)<br>(Effective 8/14/2012)          |                              |         | 200     | Ω     | 24.000~39.999MHz                         |
|                                                                     |                              |         | 100     |       | 40.000~80.000 MHz                        |
| Shunt capacitance (C0)                                              |                              |         | 5       | pF    |                                          |
| Load capacitance (CL)                                               | 8                            |         |         | pF    | Standard (See options if other than STD) |
| Drive Level                                                         |                              | 10      | 100     | μW    |                                          |
| Aging                                                               | -5                           |         | +5      | ppm   | @25°C±3°C<br>First year                  |
| Insulation Resistance                                               | 500                          |         |         | MΩ    | @ 100Vdc ± 15V                           |

## OPTIONS & PART IDENTIFICATION: (Left blank if standard)



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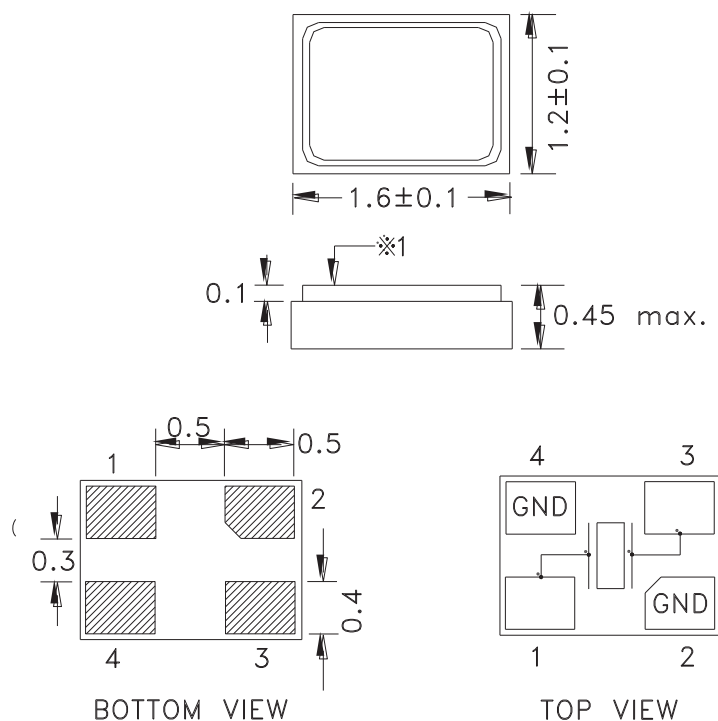


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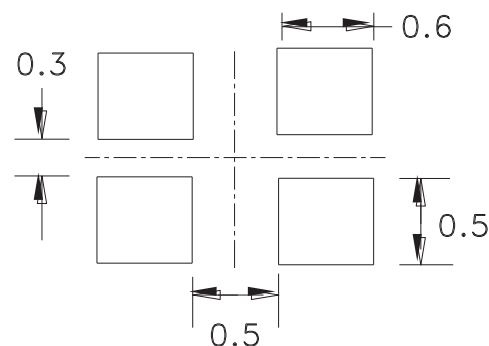


1.6 x 1.2 x 0.45mm

## OUTLINE DRAWING:



### Recommended land pattern



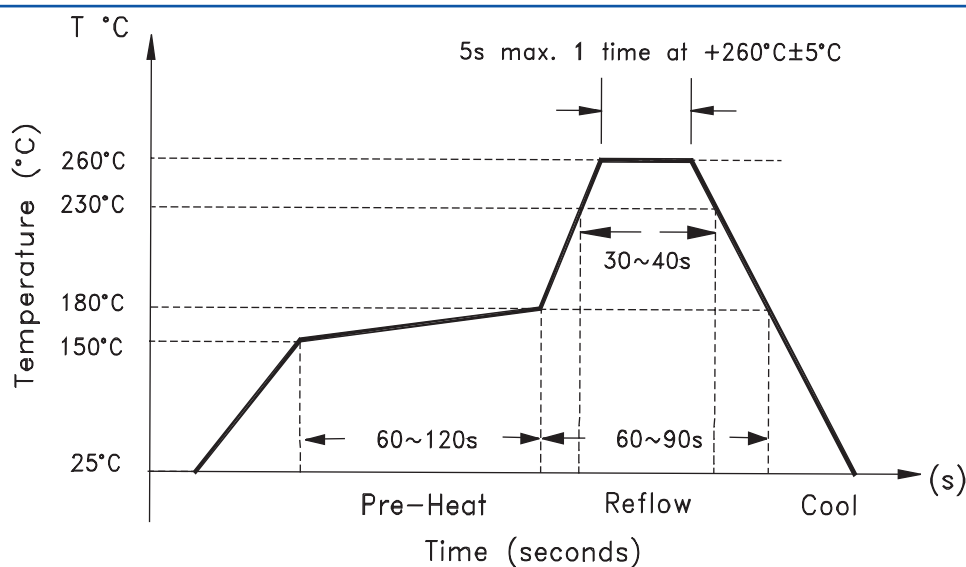
Pin 2 and pin 4 are connected to the metal lid (\*1). (Please connect to GND)

Note 1: Due to material availability, the outline and finish color of the component lid may vary. This variation in no way affects the electrical performance of the product.

Note 2: Due to materials availability, this part may be manufactured with the chamfer on pin 1 or 2. This variation in no way affects the electrical performance of the product.

Dimensions: mm

## REFLOW PROFILE:



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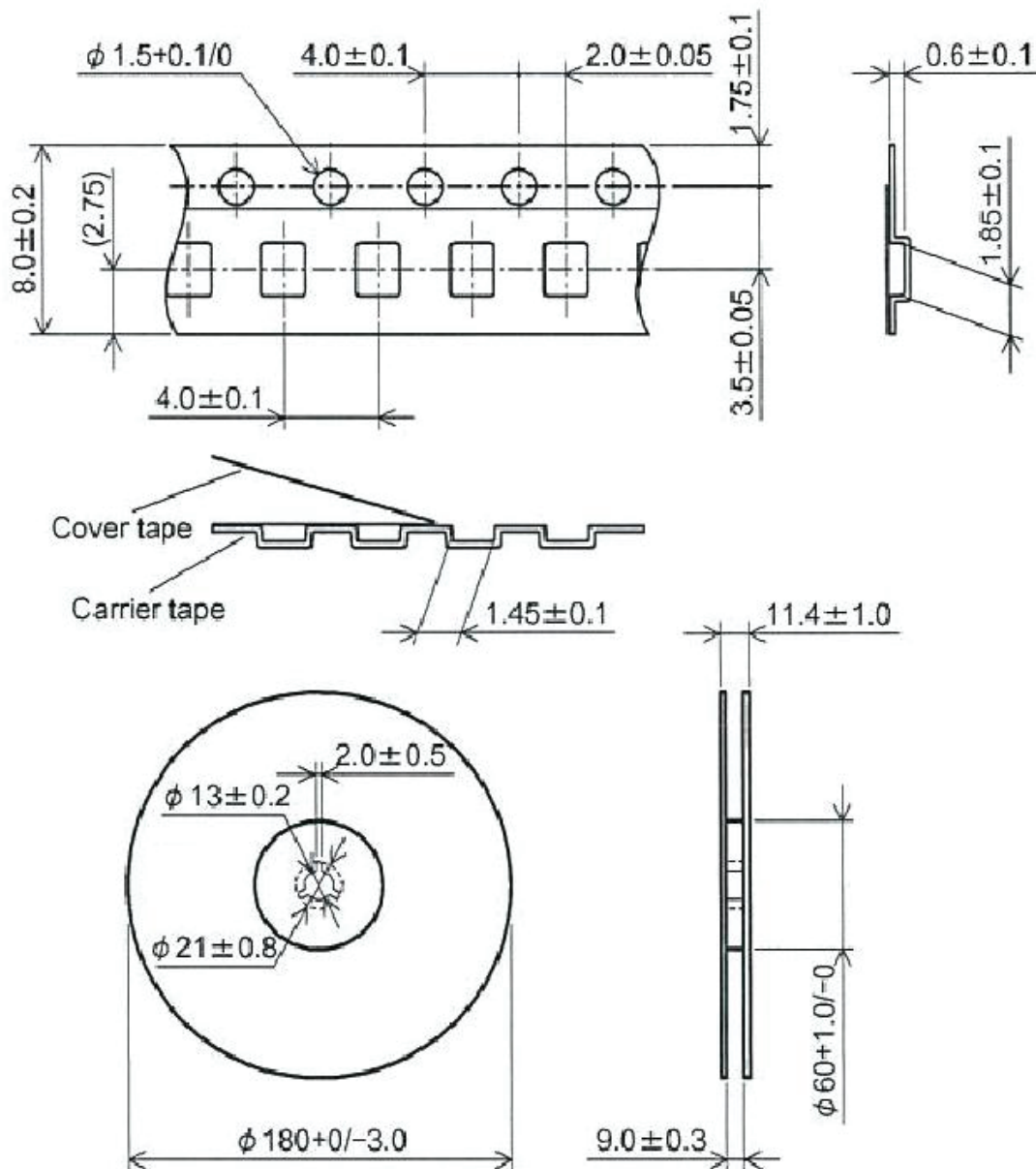


1.6 x 1.2 x 0.45mm

## TAPE & REEL:

**Option "-T":** Tape and reel (1,000pcs/reel)

**Option "-T3":** Tape and reel (3,000pcs/reel)



Dimensions: mm



Need a test socket for the ABM12 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#). P/N AXS-1612-04-01C

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ABRACON IS  
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