

# CERAMIC SMD CRYSTAL

## ABM3C

RoHS/RoHS II Compliant



5.0 x 3.2 x 1.3mm

ABM3C Series products with the Date Code/Traceability Code marking ending in "X" are Glass-Sealed and the following RoHS Exemption applies:

Pb in Glass, exemption 7C-I per RoHS II Directive 2011/65/EU Annex

ABM3C Series products with the Date Code/Traceability Code marking ending in "C" and "F" are Seam-Sealed and are Pb-Free.

**Moisture Sensitivity Level – MSL – N/A (The ABM3C Series is a Hermetically Sealed device and not moisture sensitive)**

### FEATURES:

- Low height; suitable for thin equipment.
- New seam sealed package available (code "C")
- Tight tolerance and stability available.
- Suitable for RoHS compliant reflow profile

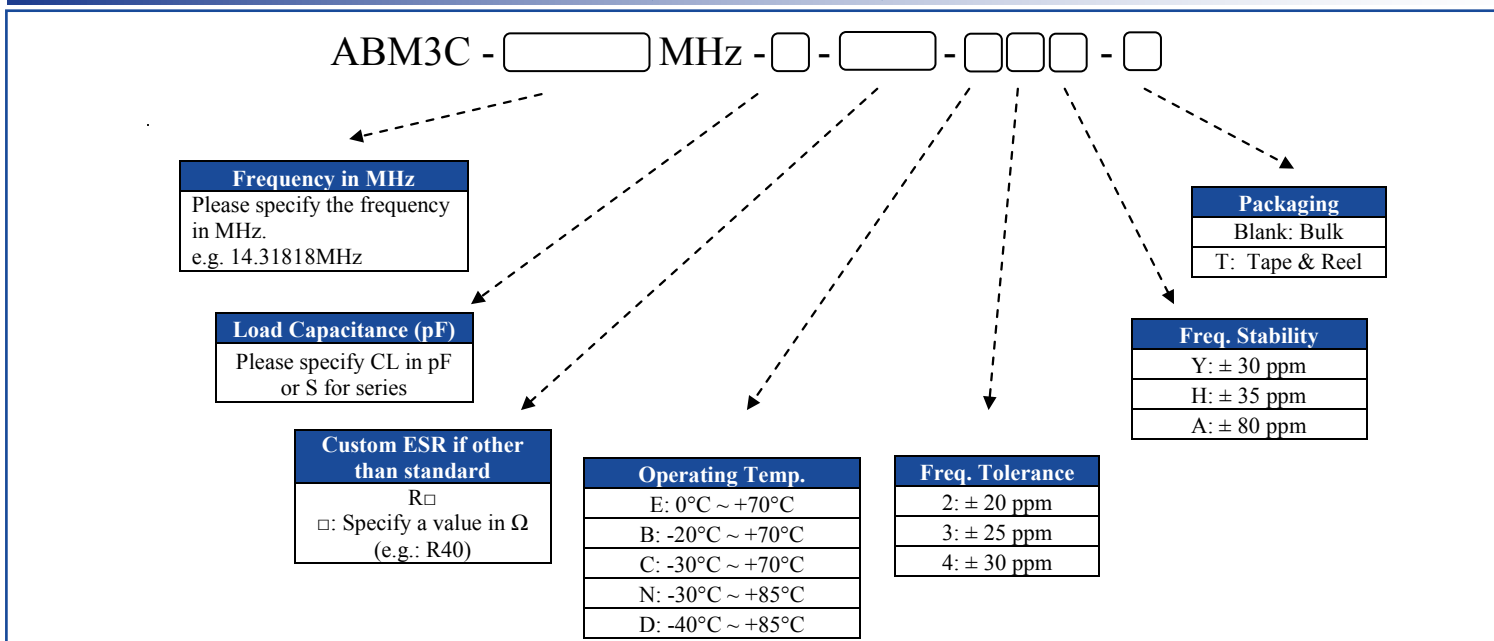
### APPLICATIONS:

- High density applications.
- Modems, communication and test equipment.
- PMCIA, Wireless applications

### STANDARD SPECIFICATIONS:

| Parameters                                                          | Minimum     | Typical | Maximum | Units | Notes                                    |
|---------------------------------------------------------------------|-------------|---------|---------|-------|------------------------------------------|
| Frequency Range                                                     | 10.000      |         | 50.000  | MHz   | Fundamental                              |
| Operation Mode                                                      | Fundamental |         |         |       |                                          |
| Operating Temperature                                               | -10         |         | +70     | °C    | See options                              |
| Storage Temperature                                                 | -40         |         | +90     | °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)                                   |             |         | 60      | Ω     | 10.000 – 15.999MHz                       |
|                                                                     |             |         | 50      |       | 16.000 – 50.000MHz                       |
| Shunt capacitance (C0)                                              |             |         | 7       | pF    |                                          |
| Load capacitance (CL)                                               |             | 18      |         | 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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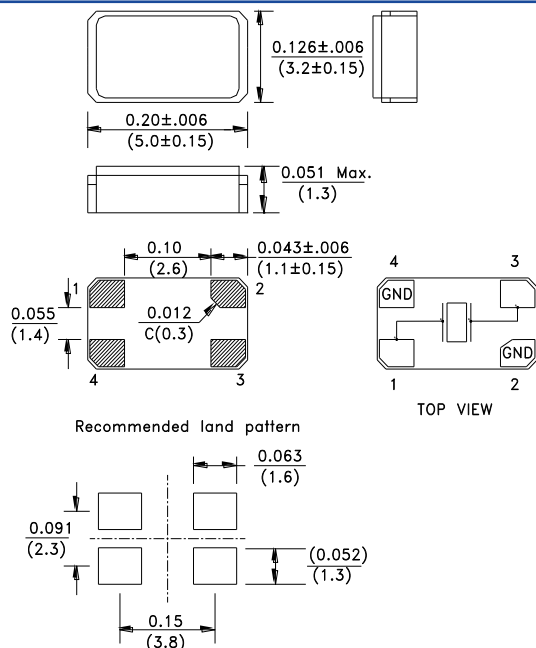
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5.0 x 3.2 x 1.3mm

## OUTLINE DRAWING:

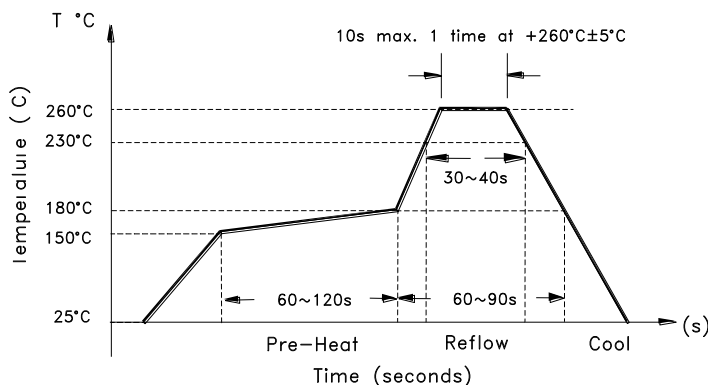


### Sealing Method :

Glass Sealing for parts with Traceability Code ending in "X"  
Seam Sealing for parts with Traceability Code ending in "C" and "F"

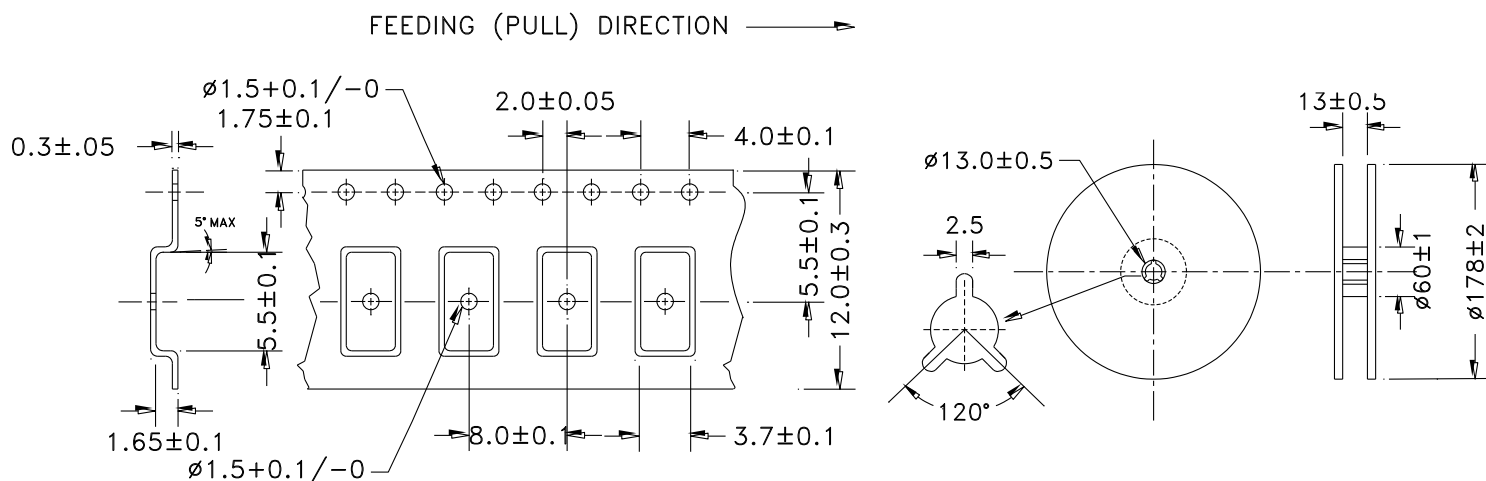
Dimensions: inches (mm)

## REFLOW PROFILE:



## TAPE & REEL:

1000pcs/reel



Dimensions: mm

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ABRACON IS  
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CERTIFIED



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