



**THE DATASHEET OF
ABM3B-12.288MHZ-B2-T**



CERAMIC SMD CRYSTAL

ABM3B



5.0 X 3.2 X 1.1mm

ABM3B



RoHS
Compliant

FEATURES:

- Fundamental mode.
- Suitable for reflow.
- Tight Stability available.
- Ceramic package and metal lid assures high precision and reliability.
- Seam sealing.

APPLICATIONS:

- Cellular telephones, Pagers.
- Communication and Test equipment.
- High Density applications.
- PCMCIA and wireless applications.

STANDARD SPECIFICATIONS:

PARAMETERS

| | |
|--|---|
| ABRACON P/N | ABM3B Series |
| Frequency Range | 8.0MHz - 50.0MHz (Fundamental) 50.1MHz - 125MHz (3rd overtone) |
| Operation Mode | Fundamental or 3rd overtone |
| Operating Temperature | - 10°C to + 60°C (see options) |
| Storage Temperature | - 40°C to + 85°C |
| Frequency Tolerance @ 25°C | ± 50 ppm max. (see options) |
| Frequency Stability over the Operating Temperature (Ref to + 25°C) | ± 50 ppm max. (see options) |
| Equivalent Series Resistance | See table 1 |
| Shunt Capacitance C0 | 7 pF max. |
| Load Capacitance CL | 18 pF (see options) |
| Drive Level | 100 µW max., 10 µW typical |
| Aging (First Year) @ 25°C ± 3°C | ± 5ppm max. |
| Insulation Resistance | 500 MΩ min at 100Vdc ± 15 V |

TABLE 1- Standard ESR

| Frequency (MHz) | ESR(Ω) max | Frequency (MHz) | ESR(Ω max) |
|-------------------------|------------|---------------------------|-------------|
| 8.000 - 9.999 (Fund.) | 200 | 16.000 - 50.000 (Fund.) | 50 |
| 10.000 -11.999 (Fund.) | 100 | 50.001 - 80.000 (3rd OT) | 60 |
| 12.000 - 15.999 (Fund.) | 70 | 80.001 - 125.000 (3rd OT) | 80 |



5.0 X 3.2 X 1.1mm

ABM3B



OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ABM3B - MHz - - - - - -

Height (mm)

Blank: 1.1mm max
1: 0.8mm max

Frequency in MHz

e.g. 8.000MHz
14.31818MHz
26.000MHz
125.000MHz

Load Capacitance

Please specify CL(6 to 32pF) in pF or S for Series
Please contact ABRACON for values under 6pF

Custom ESR if other than standard

R□
□: Specify a value in Ω (e.g.: R40)

Operating Temp.

E: 0°C ~ +70°C
B: -20°C ~ +70°C
C: -30°C ~ +70°C
N: -30°C ~ +85°C
D: -40°C ~ +85°C
J****: -40°C ~ +105°C
K****: -40°C ~ +125°C
L*: -55°C ~ +125°C

Freq. Tolerance

1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability

U**: ± 10 ppm
G***: ± 15 ppm
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Z: ± 100 ppm

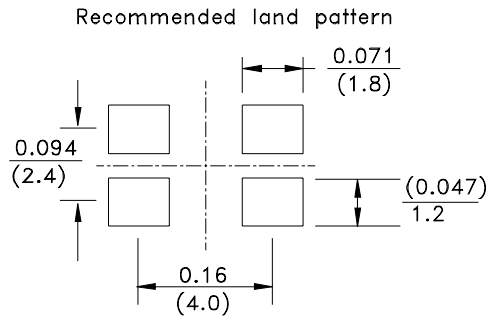
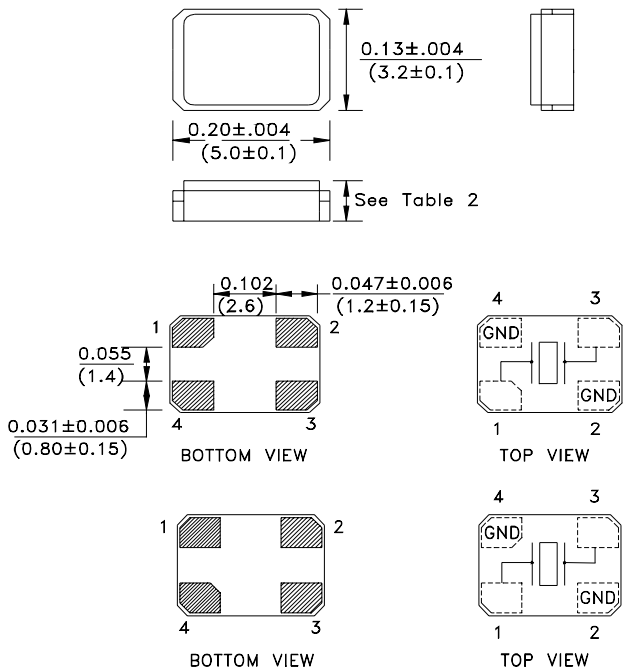
(*) Option Z only
(**) Standard temp or options E and B only
(***) Standard temp or options E, B, C and N only
(****) Freq. stability ±50ppm and ±100ppm only. Contact ABRACON for tighter freq. stability.

Packaging

Blank: Bulk
T: 1k pcs per reel
T2: 250 pcs per reel

OUTLINE DIMENSIONS:

Please see Table 2 below for height and chamfer information.



Chamfer on PIN 1 (Default)

Table 2

| | Height (mm) | Chamfer PIN # |
|--------|-------------|-----------------------------|
| ABM3B | 1.1mm max | #1 (Default), #4 (See Note) |
| ABM3B1 | 0.8mm max | #1 (Default), #4 (See Note) |

Chamfer on PIN 4 (See Note)

Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.

Dimension : Inches (mm)



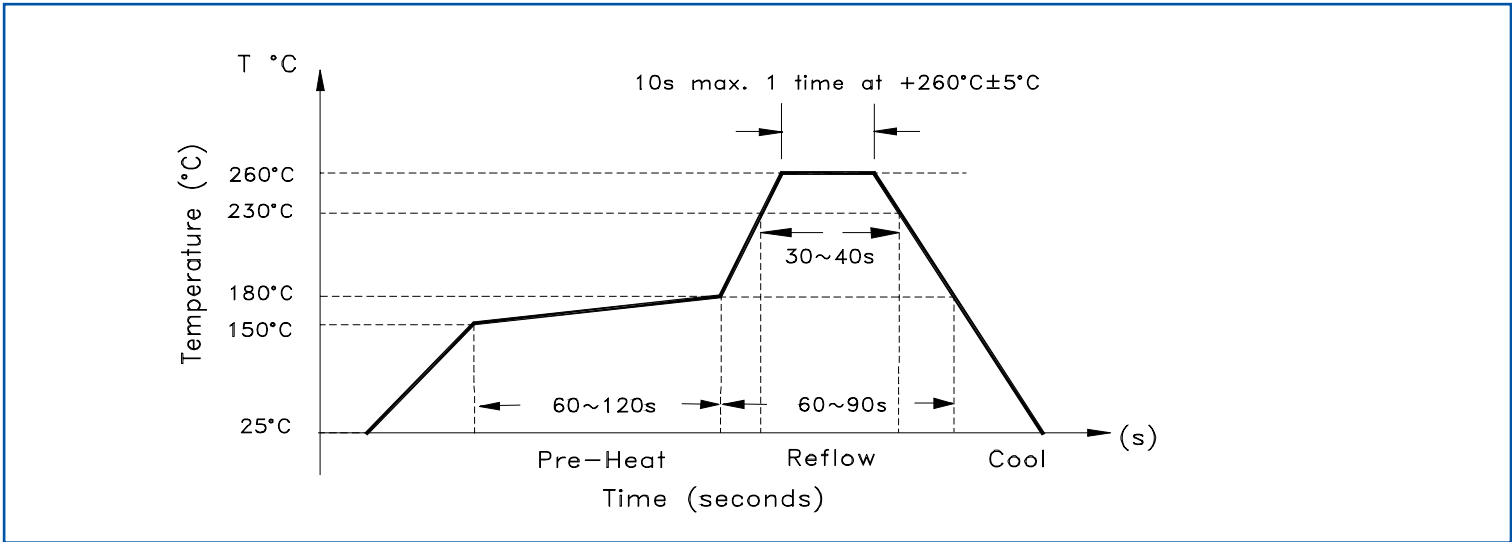
5.0 X 3.2 X 1.1mm

ABM3B

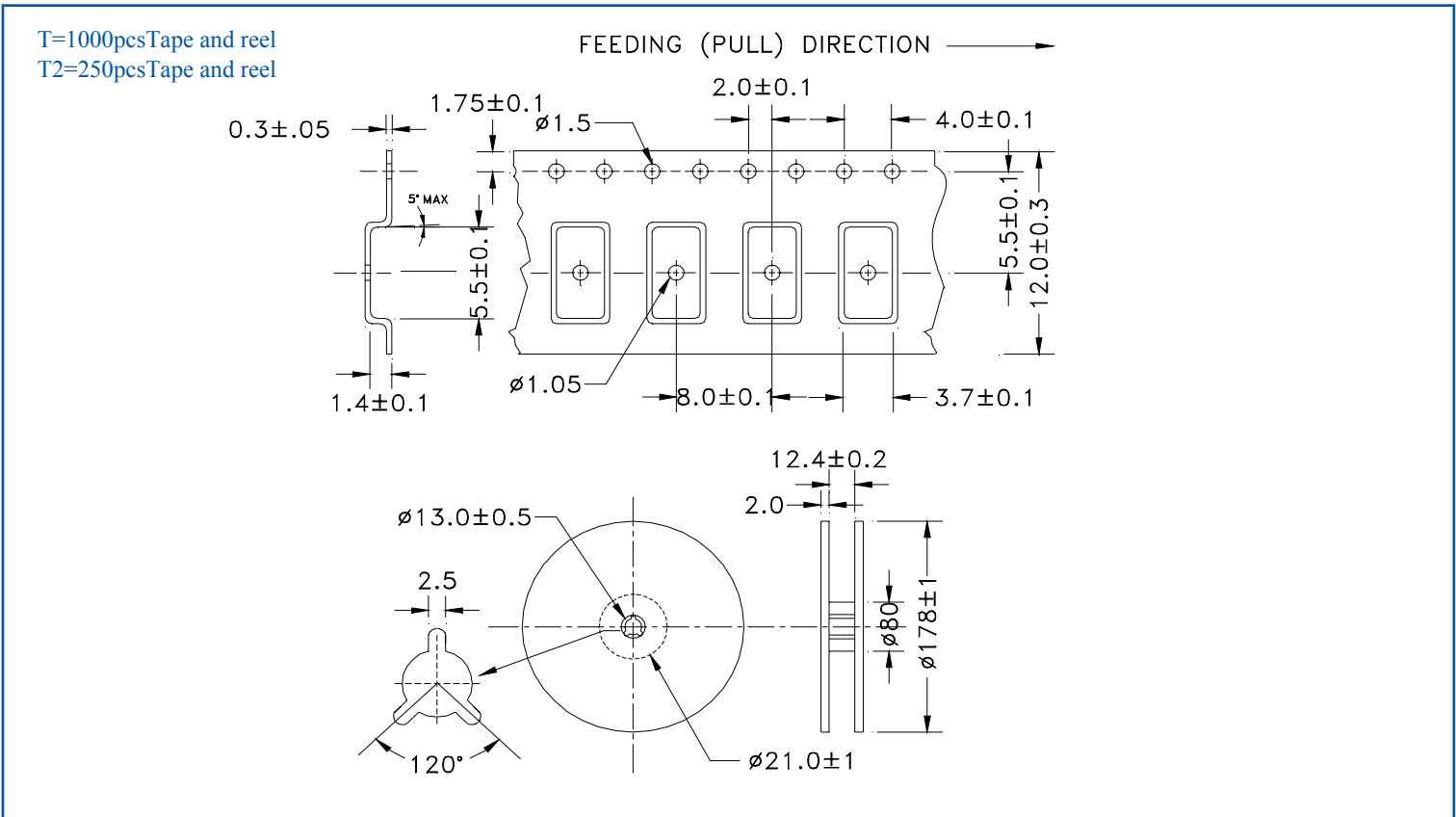


RoHS
Compliant

REFLOW PROFILE:



TAPE & REEL:



Dimension : mm

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2 Faraday, Suite# B | Irvine | CA 92618 Revised: 08.25.15
Ph. 949.546.8000 | Fax. 949.546.8001
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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management