CERAMIC SMD CRYSTAL

ABM3B

5.0 X 3.2 X 1.1mm

Pb 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	8.0 MHz - 60.0 MHz (61 MHz - 125 MHz : Contact ABRACON for assistance)
Operation Mode	Fundamental
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

FREQ (MHz)	ESR (Ω)max.
8.0 - 9.999	200
10.0 - 11.999	100
12.0 - 15.999	70
16.000 - 60.000	50

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ABM3B□ - Frequency - □ - R□□□- □- □ - □ - □

Height (mm)	
Blank	1.1mm max
1	0.8mm max

Load Capacitance (pF)
6 to 32

Contact ABRACON for CL values outside standard range.

ESR
RXXX

Operating Temp.	
E	0°C to +70°C
B	-20°C to +70°C
C	-30°C to +70°C
N	-30°C to +85°C
D	-40°C to +85°C
*	-40°C to +105°C
*	-55°C to +125°C

*Contact ABRACON for assistance.

Freq. Tolerance	
1	± 10 ppm
7	± 15 ppm
2	± 20 ppm
3	± 25 ppm
4	± 30 ppm

*Contact ABRACON for tolerances not listed.

Freq. Stability	
U	± 10 ppm (*)
G	± 15 ppm (*)
X	± 20 ppm
W	± 25 ppm
Y	± 30 ppm
H	± 35 ppm
Z	± 100 ppm (#)

*Contact ABRACON for tighter freq. stability.

(#) For extended temperatures

Packaging	
Blank	Bulk
T	Tape and Reel

30332 Esperanza, Rancho Santa Margarita, California 92688
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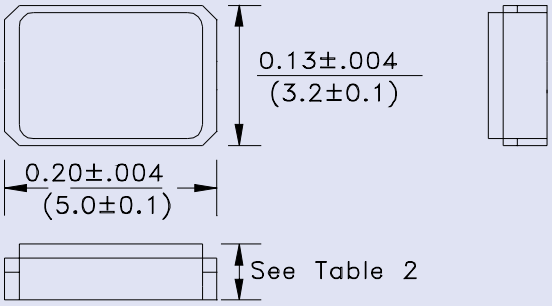
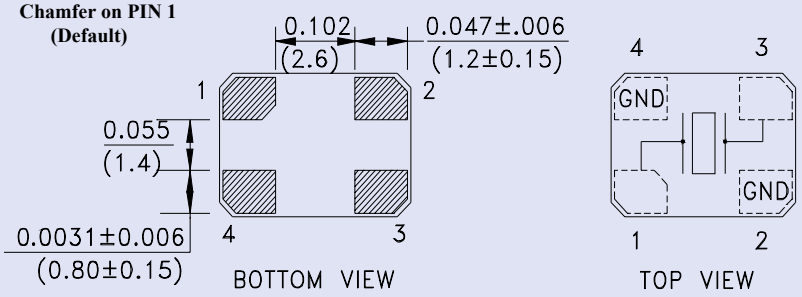
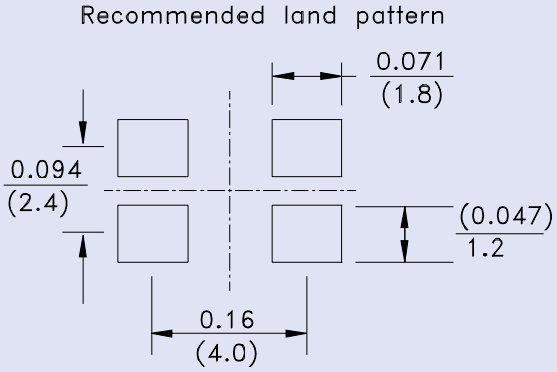
OUTLINE DRAWING:

Please see Table 2 below for height and chamfer information.



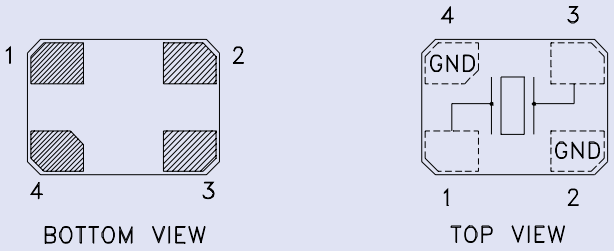
Chamfer on PIN 1 (Default)





Dimensions: inch (mm)

Chamfer on PIN 4 (See Note)

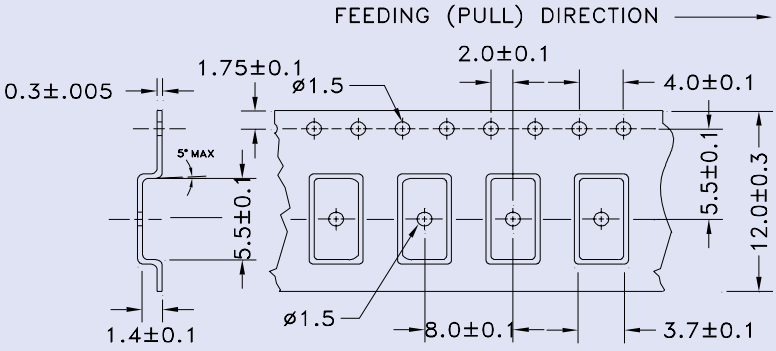


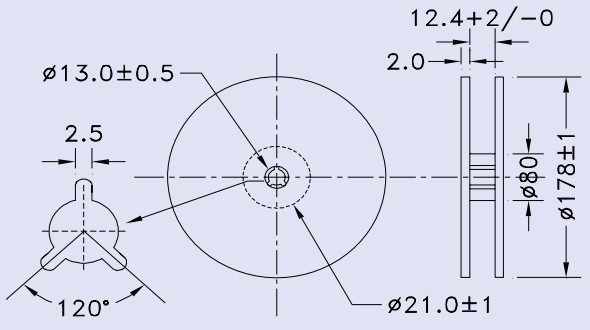
Note : Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.

Table 2

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

TAPE & REEL:





Dimensions: mm

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