

# ULTRA MINIATURE CERAMIC SMD CRYSTAL



ABM8

3.2 x 2.5 x 0.7mm

ABM8



**RoHS**  
Compliant

## FEATURES:

- Low in height; suitable for thin equipment.
- Ceramic package and metal lid assures high reliability.
- Tight tolerance and stability available.
- Suitable for solder reflow.
- High precision crystal, fundamental mode.

## APPLICATIONS:

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

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N	ABM8 Series
Frequency Range	10.00 MHz - 60.00 MHz
Operation Mode	Fundamental
Operating Temperature	-10°C to +60°C (see options)
Storage Temperature	-55°C to +125°C
Frequency Tolerance at +25°C	± 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C)	± 50 ppm max. (see options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	18pF (see options)
Drive Level	100μΩ max., 10μΩ Typical
Aging at 25°C First Year	± 5ppm max.
Insulation Resistance	500MΩ min. @ 100Vdc ± 15V

TABLE 1

FREQ (MHz)	ESR (Ω)max.
10.000 - 15.999	200
16.000 - 19.999	100
20.000 - 29.999	80
30.000 - 60.000	50

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

ABM8□ - Frequency - □ - R□□□ - □ - □ - □ - □

Height (mm)	
Blank	0.70+/-0.10
1	0.65+/-0.05
2	0.60+/-0.10
3	0.55+/-0.05

Frequency
XX.XXXX MHz

Load Capacitance
Please specify CL in pF or S for Series (minimum 7pF)

\*Consult with ABRACON for CL value under 10pF.)

ESR
RXXX (value in ohms if it is custom.)

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

\*Contact ABRACON for wider temp range.

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

Packaging
T Tape and Reel

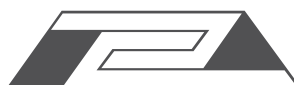
Please see Page 6 for quantity

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

(\*) -10°C to +60°C only

(#) For extended temperatures

\*Contact ABRACON for tighter freq. stability.



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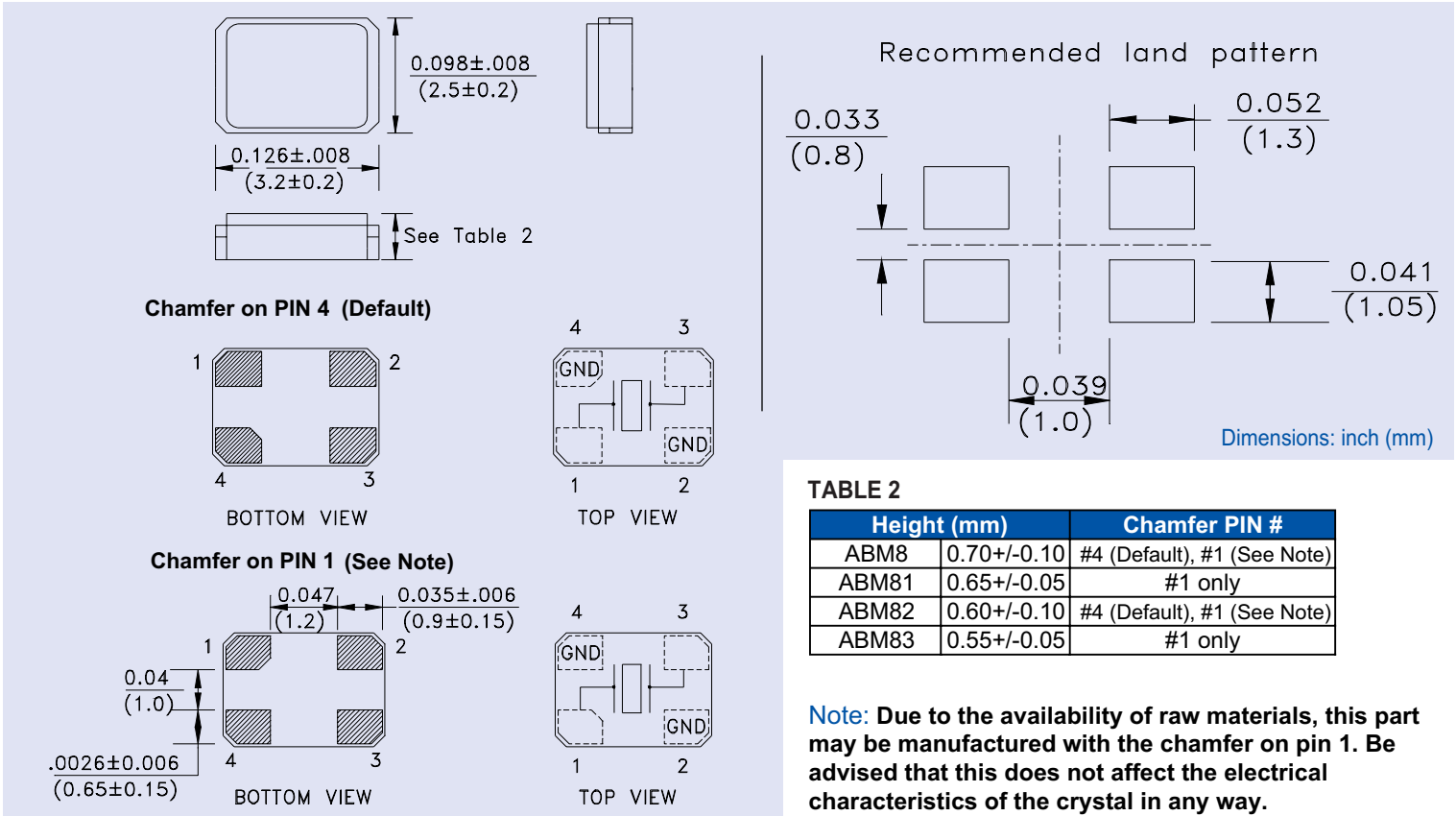
3.2 x 2.5 x 0.7mm

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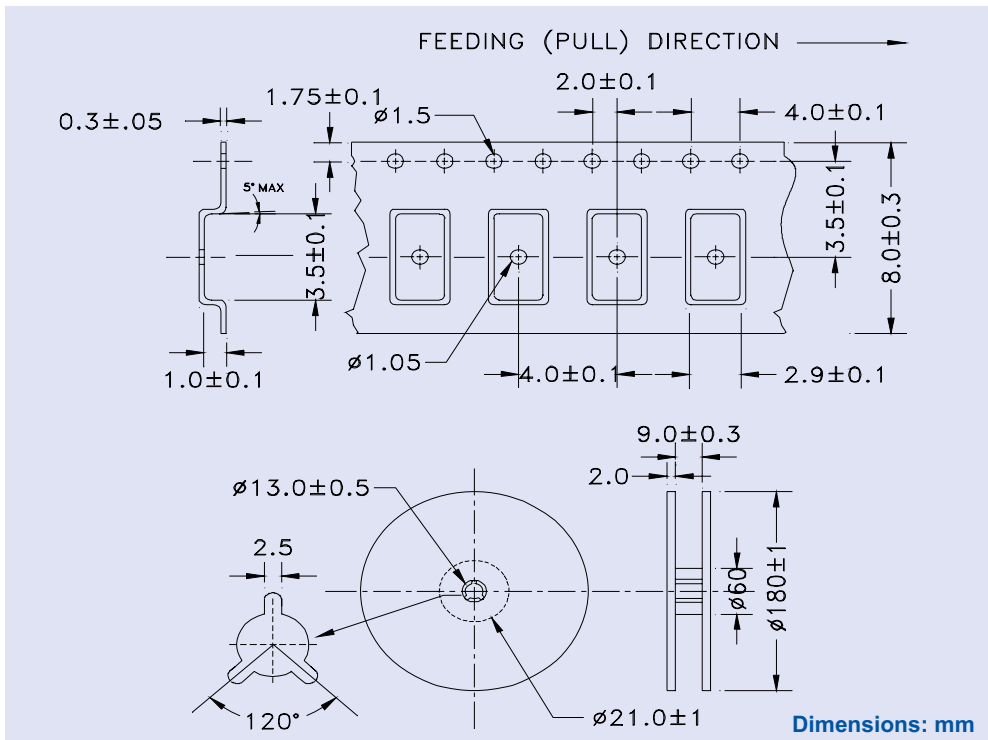


RoHS  
Compliant

➤ **OUTLINE DRAWING:** Please see Table 2 below for height and chamfer information



➤ **TAPE & REEL:**



Tape and reel (1,000pcs/reel) : ABM8, ABM82  
Tape and reel (3,000pcs/reel) : ABM81, ABM83

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