

ULTRA MINIATURE CERAMIC SMD CRYSTAL

ABM8



RoHS
Compliant



3.2 x 2.5 x 0.7mm

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.
- PMCIA, Wireless applications.

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ABM8 Series
Frequency Range	12.000MHz - 50.000MHz
Operation Mode	Fundamental (Please contact Abracon for F< 12MHz and F>50MHz)
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 ₀	7pF max.
Load Capacitance C _L	18pF (see options)
Drive Level	100μW max., 10μW Typical
Aging at 25°C First Year	± 5ppm max.
Insulation Resistance	500MΩ min. @ 100Vdc ± 15V

TABLE 1 - Standard ESR

FREQ (MHz)	ESR (Ω)max.
10.000 - 15.999	200
16.000 - 19.999	100
20.000 - 29.999	80
30.000 - 50.000	50

OPTIONS AND PART IDENTIFICATION (Left blank if standard):

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

(*) -10°C to +60°C only
Contact ABRACON for tighter freq. stability.



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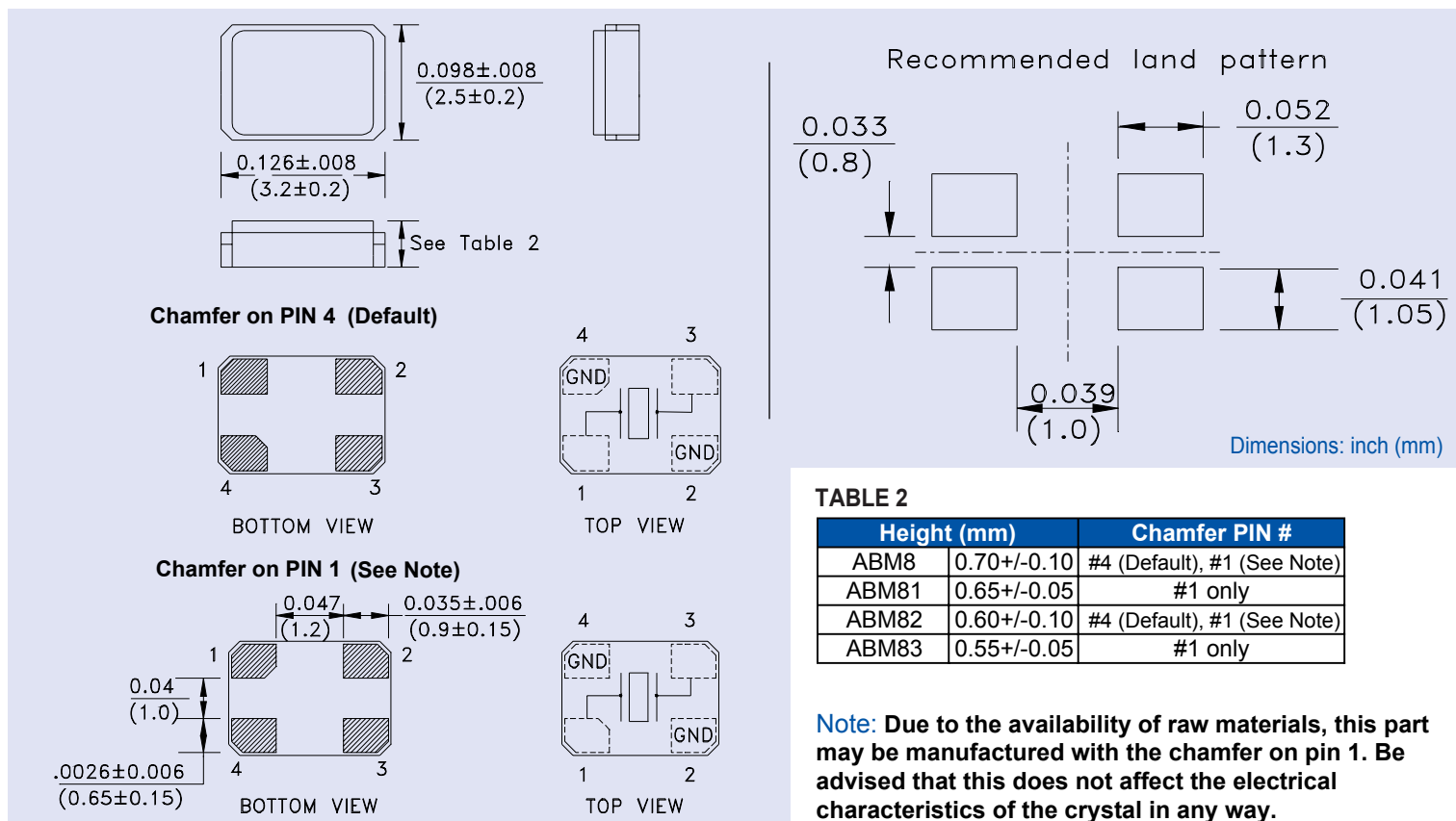


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➤ **OUTLINE DRAWING:** Please see Table 2 below for height and chamfer information



➤ **TAPE & REEL:**

➤ **REFLOW PROFILE:**

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

