

ULTRA MINIATURE CERAMIC SMD CRYSTAL



3.2 x 2.5 x 0.8mm

ABM8

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:

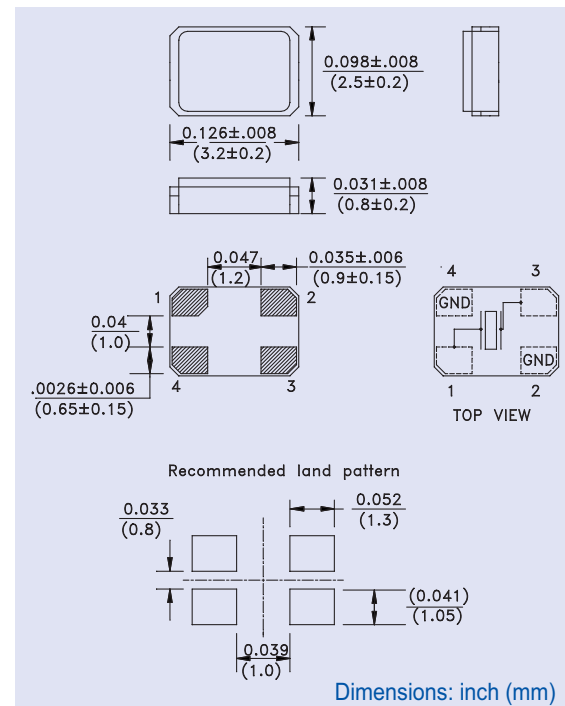
PARAMETERS	
Frequency Range	10.00 MHz - 60.00 MHz
Operation Mode	Fundamental
Operating Temperature	-10°C to + 60°C (see options)
Storage Temperature	- 55°C to + 125°C
Frequency Tolerance @ 25°C	± 50 ppm max. (see options)
Frequency Stability over Temp.	± 50 ppm max. (see options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C ₀	7pF max.
Load Capacitance C _L	18pF (see options)
Drive Level	100µW max., 10µW correlation
Aging at 25°C First Year	± 5ppm max.
Insulation Resistance	500MΩ min. @ 100Vdc ± 15V

MARKING:

- XX.X (Frequency in MHz)
- A ZYX (ZY: date code, e.g. L2; Z: month A to L; Y: last digit of year; X: Traceability code)

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

OUTLINE DRAWING:



OPTIONS AND PART IDENTIFICATION (Left blank if standard):

ABM8- Frequency - CL - ESR - Temperature - Tolerance - Stability - PIN - Packaging

Load Capacitance option:
Please specify **CL** in pF or **S** for Series (min 10 pF)

ESR option:
RXXX (value in ohms)

Temperature options:
E for 0°C to +70°C
B for -20°C to +70°C
C for -30°C to +70°C
N for -30°C to +85°C
D for -40°C to +85°C

Freq. Tolerance options:
1 for ± 10 ppm max. (**)
7 for ± 15 ppm max. (**)
2 for ± 20 ppm max. (**)
3 for ± 25 ppm max. (**)
4 for ± 30 ppm max.

PIN option:
P for chamfer of 0.3mm on PIN 4

Packaging option:
T for Tape and Reel (1,000pcs/reel)

Freq Stability options:
U for ± 10 ppm *
G for ± 15 ppm *
X for ± 20 ppm *
W for ± 25 ppm *
Y for ± 30 ppm *
H for ± 35 ppm
Z for ± 100 ppm #
 (*) -10°C to +60°C only
 (#) Option Z may apply to ext. temp.