

CERAMIC SMD ULTRA MINIATURE CRYSTAL



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	
Frequency Range	8.000 MHz - 60.000 MHz*
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	± 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 μΩ max., 10 μΩ correlation
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 Vdc

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

*please refer to list of developed frequencies, contact factory for additional frequencies

MARKING:

- XX.X (Frequency)
- ABM3B ZYX (ZY:date code, e.g. L2; Z: month A to L; Y: last digit of year; X: Traceability code)

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

ABM3B - 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)

Packaging option:

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

PIN option:

P for chamfer of 0.3mm on PIN 4

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

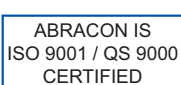
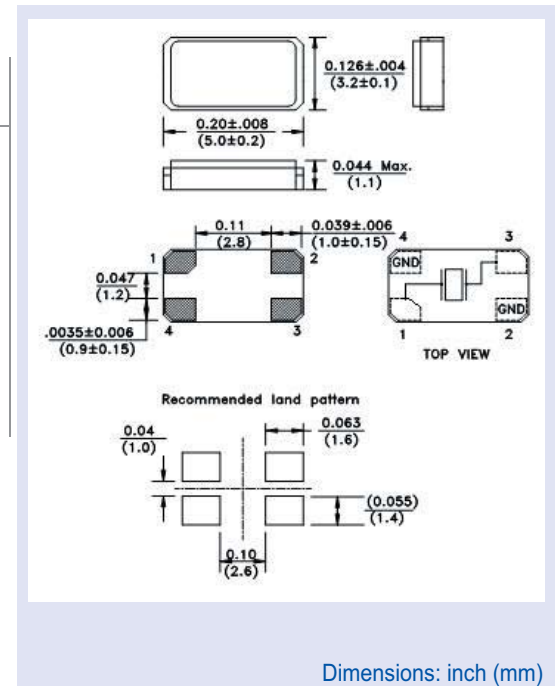
Freq Tolerance options:

1 for ± 10 ppm (**)
7 for ± 15 ppm (**)
2 for ± 20 ppm (**)
3 for ± 25 ppm (**)
4 for ± 30 ppm
 (**) Please call for availability.

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 extended temps.

OUTLINE DRAWING:



rev3.1-9/06



Dimensions: inch (mm)