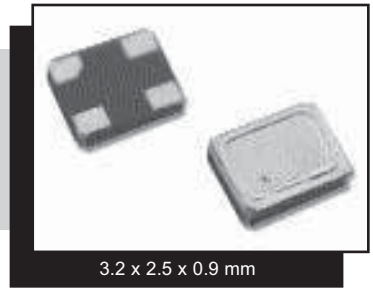


# MICROPROCESSOR CRYSTALS

## ULTRA MINIATURE CERAMIC SURFACE MOUNT

### ABM 8



#### FEATURES:

- Low in height 0.9 max.; 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

Frequency Range	3.5 - 5.0MHz; 10.0MHz - 60.0MHz
Operating Mode	Fundamental
Operating Temperature	-10°C to +60°C (See Options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance @ 25°C	±50ppm max. (See Options)
Frequency Stability	±50ppm max. (See Options)
Equivalent Series Resistance (ESR) Fundamental	100 Ω max. for 16.0MHz ≤ F < 20.0MHz 80 Ω max. for 20.0MHz ≤ F < 30.0MHz 50 Ω max. for 30.0MHz ≤ F ≤ 60.0MHz
Shunt Capacitance C <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	18pF (See Options)
Drive Level	100μW max., 10μW correlation
Aging @ 25°C per Year	±5ppm max.
Insulation Resistance	500MΩ min. at 100Vdc ±15V

Environmental, and mechanical specifications, see appendix C. Group 2.

Tape and Reel, see appendix H.(1,000 pcs./reel)

Marking, appendix G. Reflow profile, see appendix E.

Application notes, see appendix A. Recommended handling, see appendix F.

#### ORDERING OPTIONS

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

XX.XXXX MHz  
Load cap.in pF or  
-S for Series

RXXX  
(value in Ω)

-1 for ± 10ppm\*\*  
-7 for ± 15ppm\*\*  
-2 for ± 20ppm\*\*  
-3 for ± 25ppm\*\*  
-4 for ± 30ppm\*\*

-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

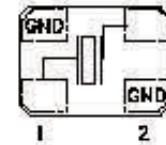
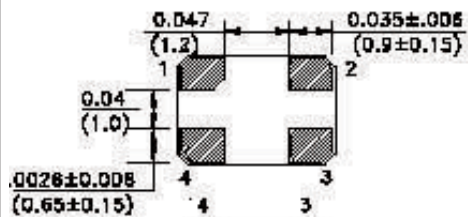
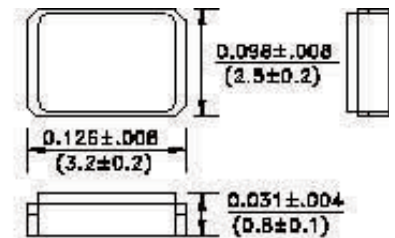
-U for ± 10ppm\*  
-G for ± 15ppm\*  
-X for ± 20ppm\*  
-W for ± 25ppm\*  
-Y for ± 30ppm\*  
-H for ± 35ppm  
-Z for ± 100ppm#

- T  
(Tape & Reel)

Dimensions: Inches (mm)

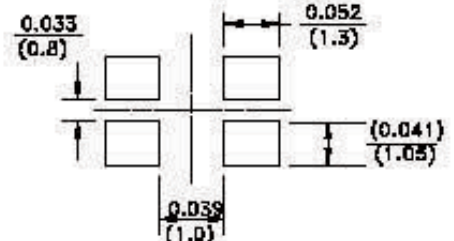
\* -10°C to +60°C only.  
\*\* Please call for availability.

# Option Z may apply to extended temperatures.



TOP VIEW

Recommended land pattern



ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED

NOTE: Left blank if standard • All specifications and markings subject to change without notice

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