

8.0 x 4.5 x 2.0 mm

# MICROPROCESSOR CRYSTALS CERAMIC SURFACE MOUNT MINIATURE ABM2

## FEATURES:

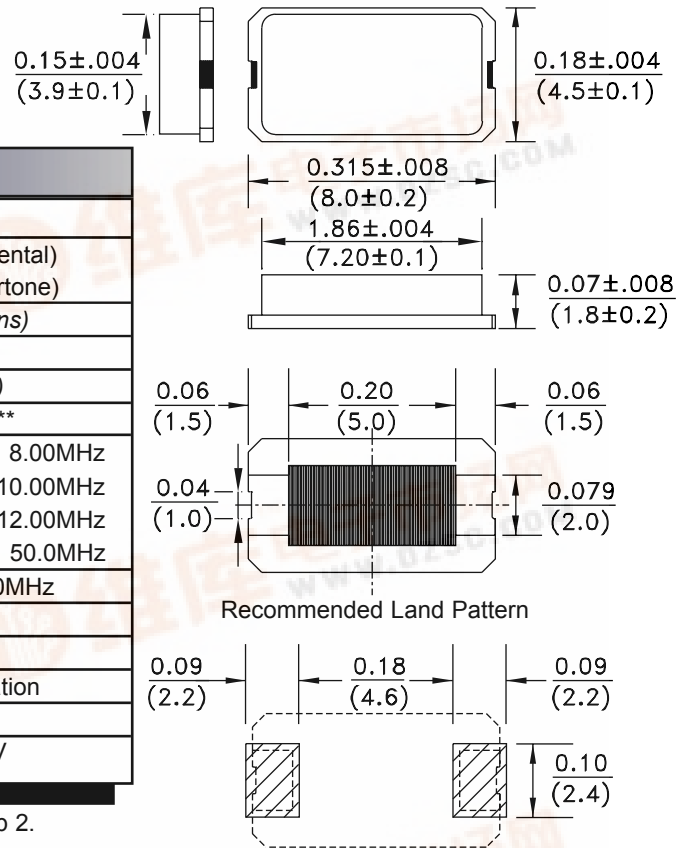
- Low profile 2.0 mm; suitable for thin equipment.
- Ceramic package assures high reliability.
- Tight tolerance and stability available.
- Suitable for solder reflow.
- Fundamental frequency up to 50MHz.

## APPLICATIONS:

- Microprocessor crystals.
- Modems, Communication, Test equipment.

## STANDARD SPECIFICATIONS

Frequency Range	<b>6.000 MHz - 100 MHz</b>
Operating Mode	6.000MHz ~ 50MHz (Fundamental) 30MHz ~ 100MHz (3rd overtone)
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 over Temp.	±50ppm max. (See Options)**
Equivalent Series Resistance (ESR)	200 Ω max. for 6.00MHz ≤ F < 8.00MHz
	100 Ω max. for 8.00MHz ≤ F < 10.00MHz
	80 Ω max. for 10.00MHz ≤ F < 12.00MHz
3rd Overtone	50 Ω max. for 12.00MHz ≤ F ≤ 50.0MHz
Shunt Capacitance C <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	18pF (See Options)
Drive Level	500μW max., 100μW correlation
Aging @ 25°C per Year	±5ppm max.
Insulation Resistance	500MΩ min. at 100Vdc ±15V



Recommended Land Pattern

CONNECTION



Dimensions: Inches (mm)

Environmental, and mechanical specifications, see appendix C. Group 2.  
 Marking, see appendix G. Recommended handling, see appendix F.  
 Tape and Reel, see appendix H.(1,000 pcs/reel)  
 Application notes, see appendix A. Reflow profile, see appendix E.

## ORDERING OPTIONS

ABM2 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Packaging

XX.XXXX MHz	RXXX (value in Ω)	-1 for ± 10ppm -7 for ± 15ppm -2 for ± 20ppm -3 for ± 25ppm -4 for ± 30ppm	-U for ± 10ppm * -G for ± 15ppm * -X for ± 20ppm * -W for ± 25ppm -Y for ± 30ppm -H for ± 35ppm	-T (Tape & Reel)
Load cap.in pF or -S for Series	-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			-F (for Fundamental F ≥ 30 MHz) -FB (Fundamental BT ≥ 30 MHz)

\* Standard operating temperature only.  
 \*\* ±100ppm max. @ -40°C to 85°C

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

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