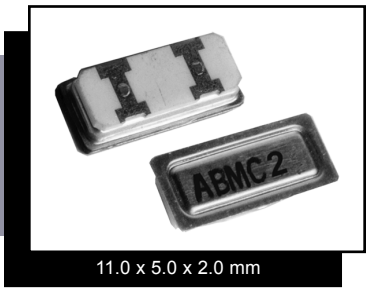
MICROPROCESSOR CRYSTALS

CERAMIC SURFACE MOUNT MINIATURE

ABMC2



11.0 x 5.0 x 2.0 mm

FEATURES:

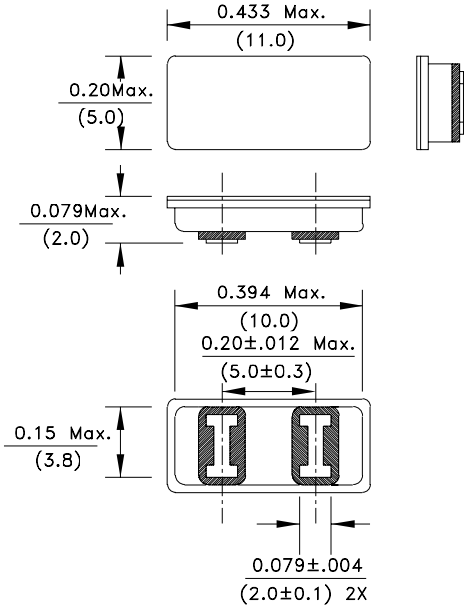
- 2.0 mm height.
- Resistance welded.
- Low frequency in true SMD package.
- High reliability; AT Strip cut for high-precision.
- Extended temperature available.
- Reflow capable.

APPLICATIONS:

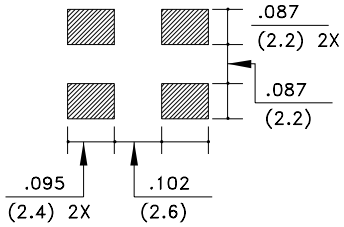
- PCMCIA applications.
- Microprocessors.
- Communication equipment, Networking, Thin equipment.

STANDARD SPECIFICATIONS

Frequency Range	**3.579545MHz - 70MHz**
Operation Mode	3.579545MHz ~ 27MHz (Fundamental) 27.0MHz ~ 41.0MHz (Fund. BT or AT) 27.01MHz ~ 70MHz (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.	±100ppm max. *(See Options)*
Equivalent Series Resistance (ESR)	200 Ω max. for 3.57MHz ≤ F < 4.00MHz
	150 Ω max. for 4.00MHz ≤ F < 5.00MHz
	120 Ω max. for 5.00MHz ≤ F < 6.00MHz
	100 Ω max. for 6.00MHz ≤ F < 7.00MHz
	80 Ω max. for 7.00MHz ≤ F < 9.00MHz
AT Fundamental	60 Ω max. for 9.00MHz ≤ F < 12.00MHz
	50 Ω max. for 12.00MHz ≤ F < 20.00MHz
	40 Ω max. for 20.00MHz ≤ F ≤ 27.00MHz
AT or BT Fundamental	40 Ω max. for 27.00MHz ≤ F ≤ 41.00MHz
3rd Overtone	100 Ω max. for 27.01MHz ≤ F ≤ 70.00MHz
Shunt Capacitance C_0	7pF max.
Load Capacitance C_L	18pF *(See Options)*
Drive Level	100µW max.
Aging @ 25°C per Year	±5ppm max.
Insulation Resistance	500M Ω min. at 100Vdc ±15V

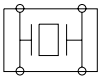


Recommended Land Pattern



Dimensions: Inches (mm)

CONNECTIONS



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

ORDERING OPTIONS

ABMC2 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Packaging

- **Frequency:** XX.XXXX MHz
- **CL:** Load cap. in pF (10pF min.) or -S for Series
- **ESR:** RXXX (value in Ω)
- **Temperature:**
  - -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
- **Tolerance:**
  - -1 for ± 10ppm
  - -7 for ± 15ppm
  - -2 for ± 20ppm
  - -3 for ± 25ppm
  - -4 for ± 30ppm
- **Stability:**
  - -U for ± 10ppm
  - -G for ± 15ppm
  - -X for ± 20ppm
  - -W for ± 25ppm
  - -Y for ± 30ppm
  - -H for ± 35ppm
  - -Z for ± 50ppm
- **Mode:**
  - - F (Fundamental AT > 27MHz)
  - - FB (Fundamental BT > 27MHz)
- **Packaging:** - T (Tape & Reel)

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

ABRACON IS ISO 9001 / QS 9000 CERTIFIED

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