

# MICROPROCESSOR CRYSTALS CERAMIC SURFACE MOUNT MINIATURE ABMC2



11.0 x 5.0 x 2.0 mm

## FEATURES:

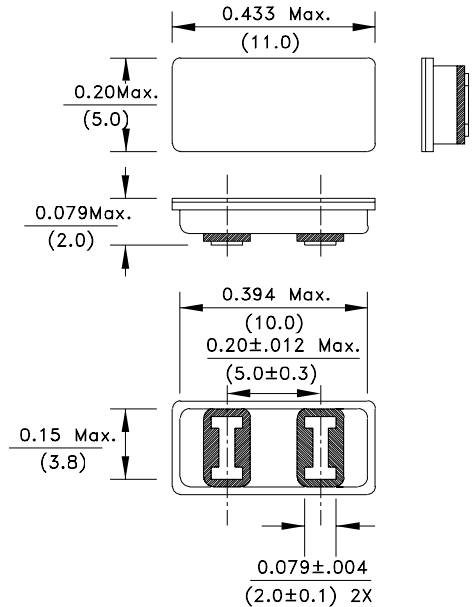
- 2.0 mm height.
- Resistance welded.
- Low frequency in true SMD package.
- High reliability; AT Strip cut for high-precision.
- Extended temperature available.
- Reflow capable.

## APPLICATIONS:

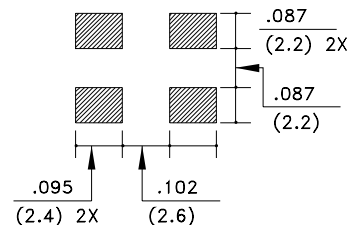
- PCMCIA applications.
- Microprocessors.
- Communication equipment, Networking, Thin equipment.

## STANDARD SPECIFICATIONS

|                                    |   |
|------------------------------------|---|
| Frequency Range                    | <b>3.579545MHz - 70MHz</b>  |
| Operation Mode                     | 3.579545MHz ~ 27MHz (Fundamental)<br>27.0MHz ~ 41.0MHz (Fund. BT or AT)<br>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<br>150 Ω max. for 4.00MHz ≤ F < 5.00MHz<br>120 Ω max. for 5.00MHz ≤ F < 6.00MHz<br>100 Ω max. for 6.00MHz ≤ F < 7.00MHz<br>80 Ω max. for 7.00MHz ≤ F < 9.00MHz<br>60 Ω max. for 9.00MHz ≤ F < 12.00MHz<br>50 Ω max. for 12.00MHz ≤ F < 20.00MHz<br>40 Ω max. for 20.00MHz ≤ F ≤ 27.00MHz |
| AT Fundamental                     |   |
| 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 <sub>0</sub>   | 7pF max.  |
| Load Capacitance C <sub>L</sub>    | 18pF (See Options)  |
| Drive Level                        | 100μW max.  |
| Aging @ 25°C per Year              | ±5ppm max.  |
| Insulation Resistance              | 500M Ω min. at 100Vdc ±15V  |

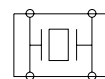


Recommended Land Pattern



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

|  |   |  |  |   |
|--|---|--|--|---|
| XX.XXXX MHz  | RXXX<br>(value in Ω)  | -1 for ± 10ppm<br>-7 for ± 15ppm<br>-2 for ± 20ppm<br>-3 for ± 25ppm<br>-4 for ± 30ppm | -U for ± 10ppm<br>-G for ± 15ppm<br>-X for ± 20ppm<br>-W for ± 25ppm<br>-Y for ± 30ppm<br>-H for ± 35ppm<br>-Z for ± 50ppm | - T<br>(Tape & Reel)  |
| Load cap. in pF<br>(10pF min.)<br>or -S for Series | -E for 0°C to +70°C<br>-B for -20°C to +70°C<br>-C for -30°C to +70°C<br>-N for -30°C to +85°C<br>-D for -40°C to +85°C |  |  | - F (Fundamental AT > 27MHz)<br>- FB (Fundamental BT > 27MHz) |

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

ABRACON IS  
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