

12.5 x 4.6 x 3.7 mm

MICROPROCESSOR CRYSTALS

MOLDED PLASTIC SURFACE MOUNT

ABSM2

FEATURES:

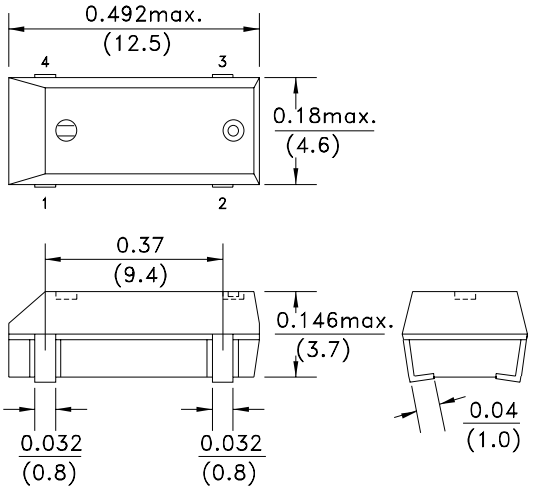
- Wide frequency range.
- Economical surface mount design.
- Plastic molded package incorporated cylindrical-type crystal.
- Excellent heat resistance.
- Suitable for solder reflow.

APPLICATIONS:

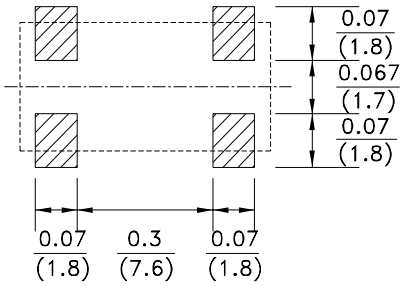
- Communication equipment.
- Measuring instruments.
- A / V equipment.
- High-density circuit boards.

STANDARD SPECIFICATIONS

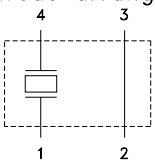
Frequency Range	**3.50MHz - 70MHz**
Operation Mode	3.50MHz ~ 32MHz (Fundamental) 30MHz ~ 70MHz (3rd overtone)
Operating Temperature	-10°C to +60°C *(See Options)*
Storage Temperature	-55°C to +125°C
Frequency Tolerance @ 25°C	±50ppm max. *(See Options)*
Frequency Stability over Temp.	±50ppm max. *(See Options)*
Equivalent Series Resistance (ESR) Fundamental AT	200 Ω max. for 3.5MHz ≤ F < 4.00MHz 150 Ω max. for 4.0MHz ≤ F < 6.00MHz 100 Ω max. for 6.0MHz ≤ F < 12.0MHz 50 Ω max. for 12.0MHz ≤ F ≤ 32.0MHz
3rd Overtone	100 Ω max. for 30.0MHz ≤ F < 36.0MHz 80 Ω max. for 36.0MHz ≤ F ≤ 70.0MHz
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	500MΩ min. at 100Vdc ±15V



Recommended land pattern



Electrode arrangement



Dimensions: Inches (mm)

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

ORDERING OPTIONS

ABSM2 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Packaging

- Frequency: XX.XXXX MHz
- CL: Load cap. in pF 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: -4 for ±30ppm max.
- Stability:
  - -Y for ± 30ppm
  - -H for ± 35ppm
  - -Z for ±100ppm
- Mode: - F (Fundamental AT ≥ 30MHz)
- Packaging: - T (Tape & Reel)

*Frequency Stability may vary depending on frequency.

ABRACON CORPORATION ®

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

29 Journey • Aliso Viejo, CA 92656 • USA
(949) 448-7070 • Fax: (949) 448-8484
E-mail: abinfo@abracon.com • Internet Address: www.abracon.com

ABRACON IS ISO 9001 / QS 9000 CERTIFIED