

MICROPROCESSOR CRYSTALS AT 49 CASE GROUNDED (- G), SURFACE MOUNT ABSM3 Series



13.0 x 4.3 x 6.2 mm

FEATURES:

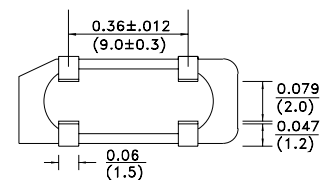
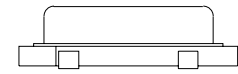
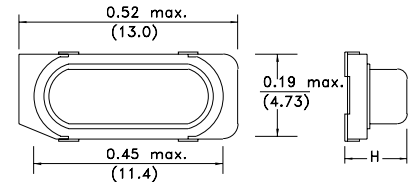
- Excellent all-purpose surface-mount crystal.
- Two different pin connections.
- Four pad land pattern compatible with common plastic molded designs.
- Case ground on AG series.

APPLICATIONS:

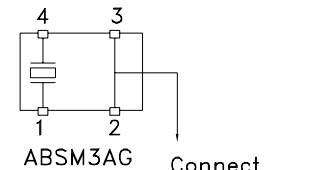
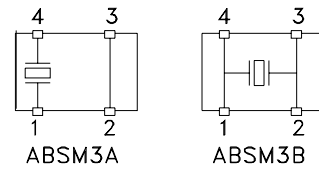
- Modems, Communications, High-density equipment
- Low EMI applications, Noise reductions.

STANDARD SPECIFICATIONS

| | |
|--|--|
| Frequency Range | 3.579MHz - 60MHz |
| Operation Mode | 3.579MHz - 28MHz (Fundamental) 28.01MHz - 60MHz (3rd overtone) (Fundamental Frequency up to 50MHz) |
| 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) Fundamental | 180 Ω max. for 3.579MHz ≤ F < 4.000MHz 150 Ω max. for 4.000MHz ≤ F < 5.000MHz 100 Ω max. for 5.000MHz ≤ F < 7.000MHz 50 Ω max. for 7.000MHz ≤ F < 15.00MHz 40 Ω max. for 15.00MHz ≤ F ≤ 50.00MHz |
| 3rd Overtone | 100 Ω max. for 28.0MHz < F ≤ 60.00MHz |
| Shunt Capacitance C ₀ | 7pF max. |
| Load Capacitance C _L | 18pF (See Options) |
| Drive Level | 1mW max., 100μW correlation |
| Aging @ 25°C per Year | ±5ppm max. |
| Insulation Resistance | 500MΩ min. at 100Vdc ±15V |



Electrode arrangement



PIN CONNECTIONS

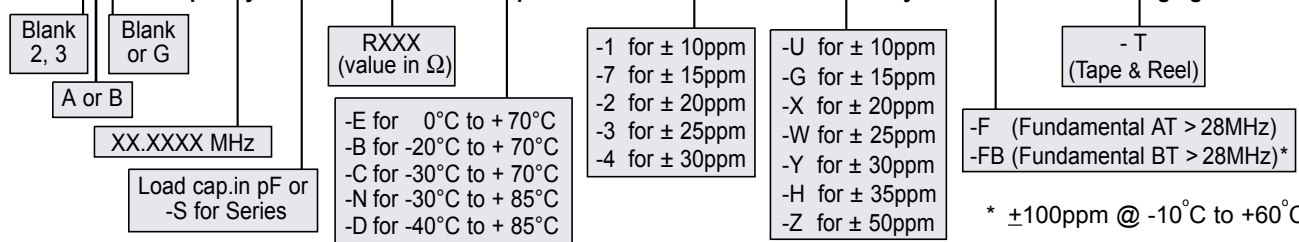
Dimensions:
Inches (mm)

| Part Number | H (max.) |
|-------------|------------|
| ABSM3A | 0.20 (5.1) |
| ABSM32A | 0.18 (4.5) |
| ABSM33A | 0.15 (3.8) |
| ABSM3B | 0.20 (5.1) |
| ABSM32B | 0.18 (4.5) |
| ABSM33B | 0.15 (3.8) |
| ABSM3AG | 0.20 (5.1) |
| ABSM32AG | 0.18 (4.5) |

Environmental, and mechanical specifications see appendix C, Group 1.
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

ABSM3XXX - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Packaging



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

ABRACON IS
ISO 9001 / QS 9000
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