

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



13.0 x 4.3 x 6.2 mm

## FEATURES:

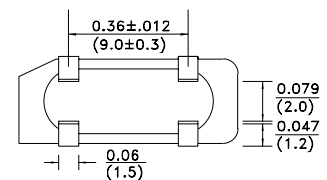
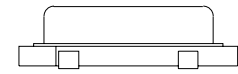
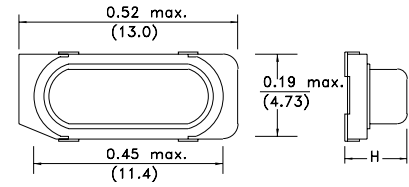
- Excellent all-purpose surface-mount crystal.
- Two different pin connections.
- Four pad land pattern compatible with common plastic molded designs.
- Case ground on AG series.

## APPLICATIONS:

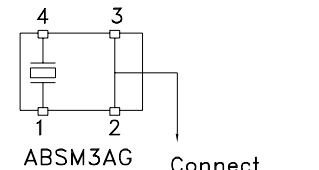
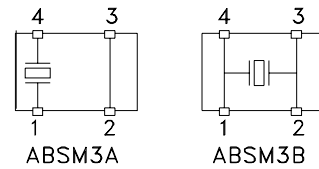
- Modems, Communications, High-density equipment
- Low EMI applications, Noise reductions.

## STANDARD SPECIFICATIONS

Frequency Range	<b>3.579MHz - 60MHz</b>
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 <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	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

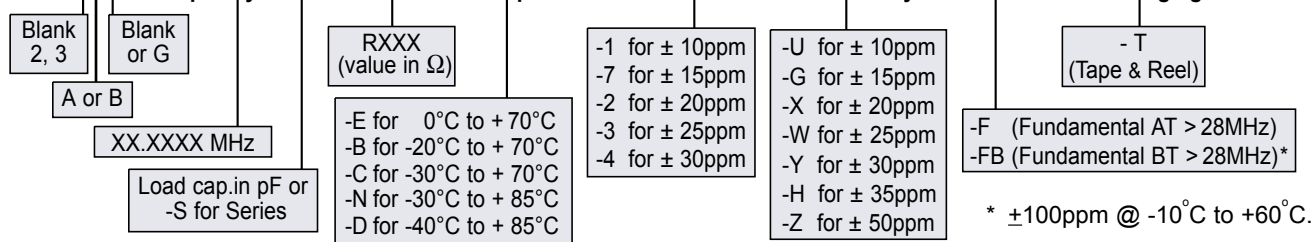
Dimensions:  
Inches (mm)

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  
CERTIFIED

29 Journey • Aliso Viejo, CA 92656 • USA  
(949) 448-7070 • FAX: (949) 448-8484

E-MAIL: [abinfo@abracon.com](mailto:abinfo@abracon.com) • INTERNET ADDRESS: [www.abracon.com](http://www.abracon.com)

