

10.0 x ϕ 3.2 mm

HIGH FREQUENCY, CYLINDRICAL TYPE MICROPROCESSOR CRYSTALS AB308 and AB310

FEATURES:

- Miniature High-Frequency crystals.
- Excellent vibration, Shock resistant.

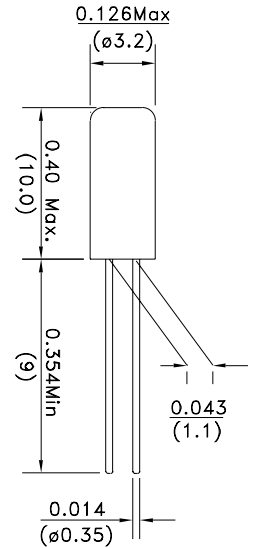
APPLICATIONS:

- Wide range of applications.
- Microprocessor clocks.
- Communications, Measuring instruments.
- Video and audio equipment

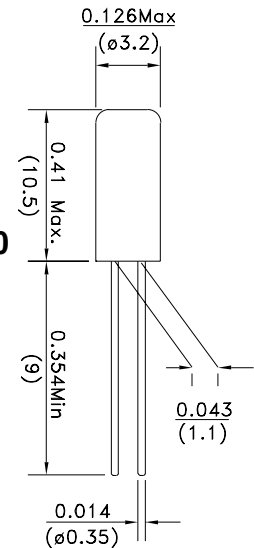
STANDARD SPECIFICATIONS

PARAMETERS	AB308	AB310
Frequency Range	4.001MHz - 90MHz	3.5MHz - 4.000MHz
Operation Mode	4.001MHz ~ 32.0MHz (Fundamental) 30.01MHz ~ 70.0MHz (3rd overtone)	Fundamental
Operating Temperature	-10°C to +60°C (See Options)	
Storage Temperature	-40°C to +85°C	
Frequency Tolerance @ 25°C	±30ppm max. (See Options)	
Frequency Stability over Temp.	±50ppm max. (See Options)	
Equivalent Series Resistance (ESR)	150 Ω max. for 4.001MHz \leq F < 6.0MHz 100 Ω max. for 6.000MHz \leq F < 10.0MHz 50 Ω max. for 10.000MHz \leq F \leq 32.0MHz	200 Ω max.
	100 Ω max. for 30.0MHz \leq F < 36.0MHz 80 Ω max. for 36.00MHz \leq F \leq 90.0MHz	
Shunt Capacitance C ₀	5pF max.	
Load Capacitance C _L	16pF typical (See Options)	
Drive Level	100 μ W max.	
Aging @ 25°C First Year	±5ppm max.	
Insulation Resistance	500M Ω min. at 100Vdc \pm 15V	

AB308



AB310



Dimensions: Inches (mm)

Environmental, and mechanical specifications, see appendix C. Group 2.

Marking, see appendix G.

Recommended handling, see appendix F.

Application notes, see appendix A.

ORDERING OPTIONS

ABXXX - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode

308 or 310

XX.XXX MHz

Load cap. in pF or
-S for Series

RXXX
(value in Ω)

-E for 0°C to +70°C
-B for -20°C to +70°C
-D for -40°C to +85°C

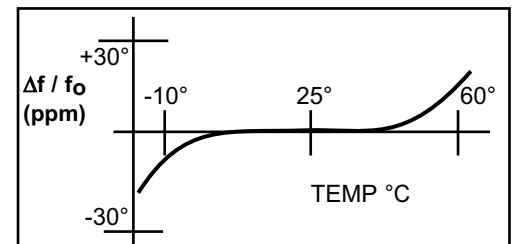
-5 for \pm 50ppm

-Y for \pm 30ppm

-F (Fundamental AT > 30MHz)
-FB (Fundamental BT > 30MHz)*

* +100ppm stability at -10°C to 60°C

TYPICAL FREQUENCY
-VS-
TEMPERATURE CURVE



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: abinfos@abracon.com • INTERNET ADDRESS: www.abracon.com

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED