

10.0 x Ø3.2 mm

HIGH FREQUENCY, CYLINDRICAL TYPE

MICROPROCESSOR CRYSTALS

AB308 and AB310

FEATURES:

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

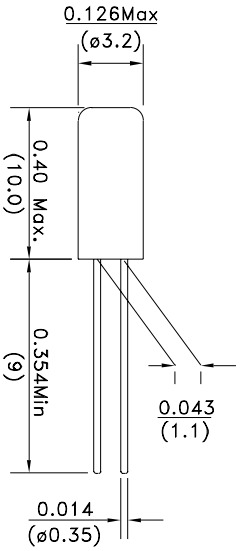
APPLICATIONS:

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

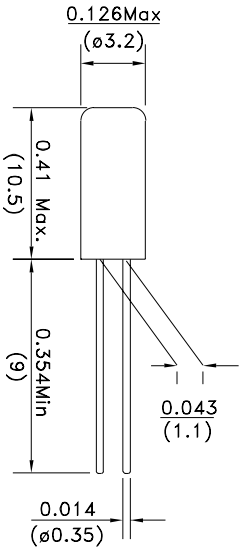
STANDARD SPECIFICATIONS

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) Fundamental	150 Ω max. for 4.001MHz ≤ F < 6.0MHz 100Ω max. for 6.000MHz ≤ F < 10.0MHz 50 Ω max. for 10.000MHz ≤ F ≤ 32.0MHz	200 Ω max.
3rd Overtone	100 Ω max. for 30.0MHz ≤ F < 36.0MHz 80 Ω max. for 36.00MHz ≤ F ≤ 90.0MHz	
Shunt Capacitance C_0	5pF max.	
Load Capacitance C_L	16pF typical *(See Options)*	
Drive Level	100µW max.	
Aging @ 25°C First Year	±5ppm max.	
Insulation Resistance	500MΩ min. at 100Vdc ±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.

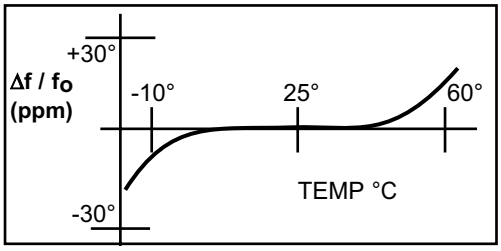
ORDERING OPTIONS

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

- ABXXX: 308 or 310
- Frequency: XX.XXX 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; -D for -40°C to + 85°C
- Tolerance: -5 for ± 50ppm
- Stability: -Y for ± 30ppm
- Mode: -F (Fundamental AT > 30MHz); -FB (Fundamental BT > 30MHz)*

* +100ppm stability at -10°C to 60°C

TYPICAL FREQUENCY -vs- TEMPERATURE CURVE



ABRACON CORPORATION

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

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ABRACON IS ISO 9001 / QS 9000 CERTIFIED