



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.

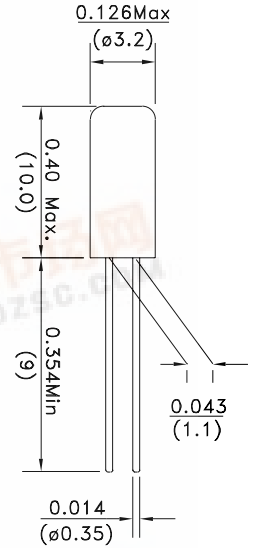
APPLICATIONS:

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

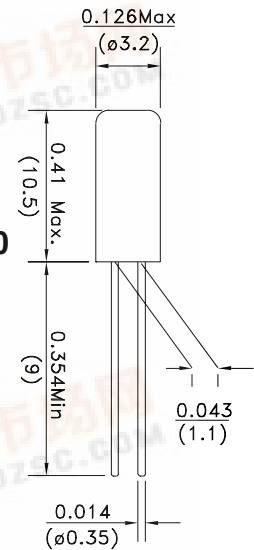
STANDARD SPECIFICATIONS

| 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 100 Ω max. for 30.0MHz \leq F < 36.0MHz 80 Ω max. for 36.00MHz \leq F \leq 90.0MHz | 200 Ω max. |
| 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



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

Marking, see appendix G.

Recommended handling, see appendix F.

Application notes, see appendix A.

Dimensions: Inches (mm)

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

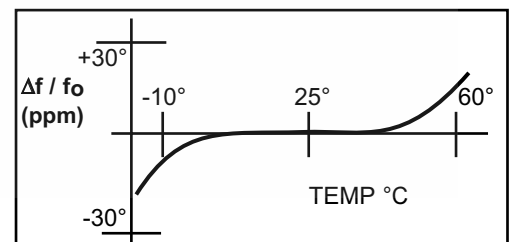
-5 for \pm 50ppm

-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

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ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

