

10.0 x  $\phi$ 3.2 mm

# HIGH FREQUENCY, CYLINDRICAL TYPE MICROPROCESSOR CRYSTALS AB308 and AB310

## FEATURES:

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

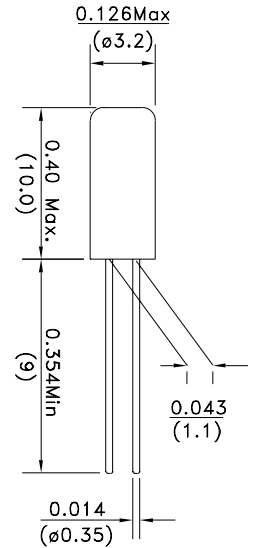
## APPLICATIONS:

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

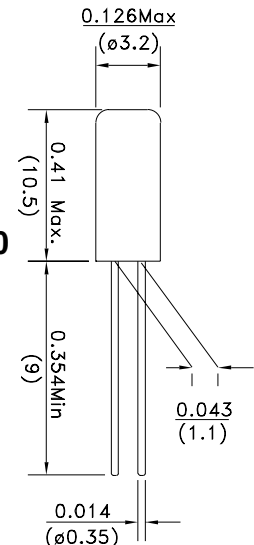
## STANDARD SPECIFICATIONS

PARAMETERS	AB308	AB310
Frequency Range	<b>4.001MHz - 90MHz</b>	<b>3.5MHz - 4.000MHz</b>
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 $\Omega$ max. for 4.001MHz $\leq$ F < 6.0MHz 100 $\Omega$ max. for 6.000MHz $\leq$ F < 10.0MHz 50 $\Omega$ max. for 10.000MHz $\leq$ F $\leq$ 32.0MHz	200 $\Omega$ max.
	100 $\Omega$ max. for 30.0MHz $\leq$ F < 36.0MHz 80 $\Omega$ max. for 36.00MHz $\leq$ F $\leq$ 90.0MHz	
Shunt Capacitance C <sub>0</sub>	5pF max.	
Load Capacitance C <sub>L</sub>	16pF typical (See Options)	
Drive Level	100 $\mu$ W max.	
Aging @ 25°C First Year	±5ppm max.	
Insulation Resistance	500M $\Omega$ 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  $\Omega$ )

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

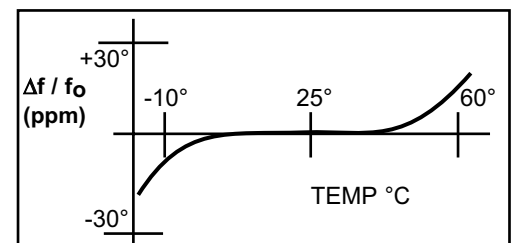
-5 for  $\pm$  50ppm

-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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CERTIFIED