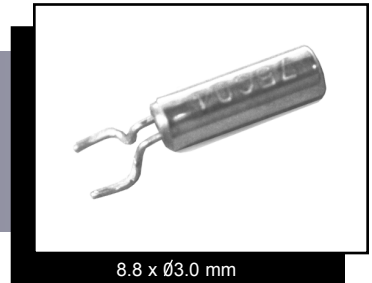


# HIGH FREQUENCY, CYLINDRICAL TYPE CRYSTALS REFLOWABLE SURFACE MOUNT AB308R and AB310R



8.8 x 0.30 mm

## FEATURES:

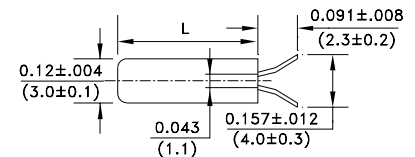
- Miniature High-Frequency crystals.
- Excellent vibration, Shock resistant.
- Reflow capable.

## APPLICATIONS:

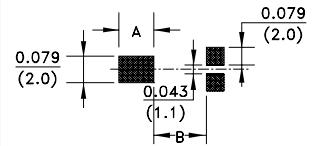
- Wide range of applications.
- Microprocessor clocks.
- Communications, Measuring instruments.
- Ideal for low cost SMD applications.

## STANDARD SPECIFICATIONS

PARAMETERS	AB308R	AB310R
Frequency Range	4.001MHz - 70MHz	3.5MHz-4.000MHz
Operation Mode	4.001MHz - 32.0MHz ( Fund. ) 30.0MHz - 70.0MHz ( 3rd OT )	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 4.0MHz ≤ F < 6.0MHz 100 Ω max. for 6.0MHz ≤ F < 10.0MHz 50 Ω max. for 10.0MHz ≤ F ≤ 32.0MHz	200 Ω max.
Fundamental		
3rd Overtone	100 Ω max. for 30.0MHz ≤ F < 36.0MHz 80 Ω max. for 36.0MHz ≤ F ≤ 70.0MHz	
Shunt Capacitance C <sub>0</sub>	5pF max.	
Load Capacitance C <sub>L</sub>	16pF typical (See Options)	
Drive Level	100μW max.	
Aging @ 25°C First Year	±5ppm max.	
Insulation Resistance	500M Ω min. at 100Vdc ±15 V	



Recommended Land Pattern



Dimensions: Inches (mm)

Environmental, and mechanical specifications, see appendix C. Group 3.

Tape and Reel, see appendix H.(2,000 pcs/reel)

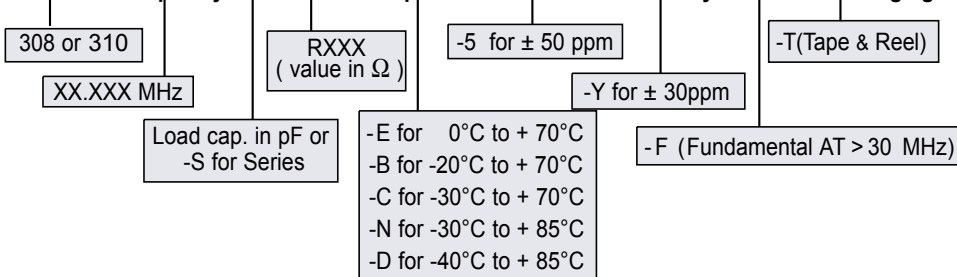
Marking, see appendix G. Reflow profile, see appendix E.

Application notes, see appendix A. Recommended handling, see appendix F.

Dim.	AB308R	AB310R
L	$\frac{0.346 \pm 0.012}{(8.8 \pm 0.3)}$	$\frac{0.386 \pm 0.008}{(9.8 \pm 0.2)}$
A	$\frac{0.178}{(4.5)}$	$\frac{0.2}{(5.01)}$
B	$\frac{0.23}{(5.81)}$	$\frac{0.25}{(6.31)}$

## ORDERING OPTIONS

ABXXXR - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Packaging



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

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