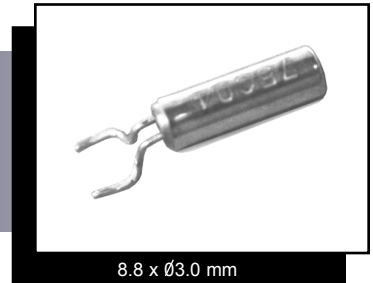


HIGH FREQUENCY, CYLINDRICAL TYPE CRYSTALS REFLOWABLE SURFACE MOUNT AB308R and AB310R



8.8 x 0.30 mm

FEATURES:

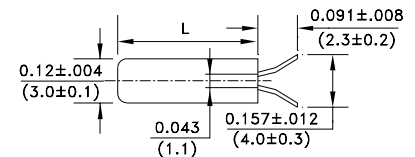
- Miniature High-Frequency crystals.
- Excellent vibration, Shock resistant.
- Reflow capable.

APPLICATIONS:

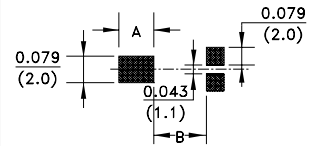
- Wide range of applications.
- Microprocessor clocks.
- Communications, Measuring instruments.
- Ideal for low cost SMD applications.

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 ₀ | 5pF max. | |
| Load Capacitance C _L | 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)

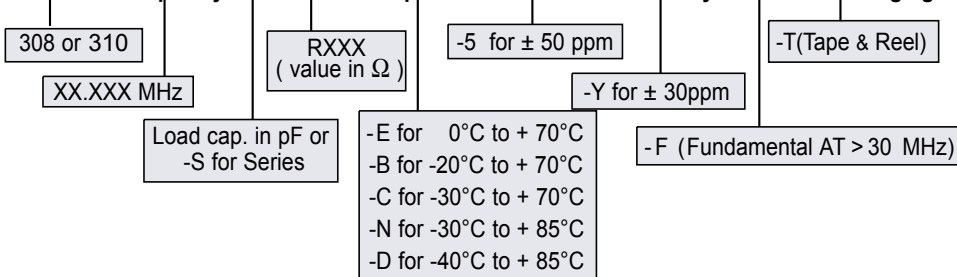
Marking, see appendix G. Reflow profile, see appendix E.

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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