# LEADED, LOW FREQUENCY kHz BAND CERAMIC RESONATORS

LXZT series

Pb in ceramic
(exempt per RoHS 2002/95/EC Annex (7))

RoHS Compliant




Size varies

## FEATURES:

- Standard frequency range from190kHz to 1250kHz.
- Low cost timing solution.
- Low resonant impedance.

## APPLICATIONS:

- Microprocessor clocks.
- Electrical appliances.
- Remote controls.

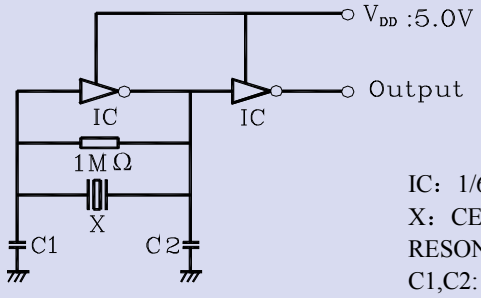
## STANDARD SPECIFICATIONS:

| Item | Requirement |
|---|---|
| Oscillation Frequency | 190.00kHz to 1250.00kHz |
| Resonant Impedance | See Table 2.1 |
| Frequency Tolerance and stability | See Table 2.1 |
| Withstanding Voltage (V) | 50 (DC , 1 min) |
| Rating Voltage | |
| (1) D.C.Voltage | 6 V.D.C. max |
| (2) A.C. Voltage | 15 Vp-p. max |
| Load Capacitance | See Table 2.1 |
| Insulation Resistance | 100MΩ min. (10V DC 1min) |
| Operating Temperature | -25°C to + 85°C |
| Storage Temperature | -40°C to +85°C |
| Aging Rate (Fosc) | ±0.3% (From initial value) |

Table 2.1

| Frequency Range (kHz) | C1 (pF) ±20% | C2 (pF) ±20% | Resonant Impedance | Frequency Stability at -25°C to +85°C | Freq. Tolerance at 25°C |
|---|---|---|---|---|---|
| 190 - 249 | 330 | 470 | 20Ω max. | ± 0.3% | ±1.0 kHz |
| 250 - 374 | 220 | 470 | 20Ω max. | ± 0.3% | ±1.0 kHz |
| 375 - 429 | 120 | 470 | 20Ω max. | ± 0.3% | ±2.0 kHz |
| 430 - 509 | 100 | 100 | 20Ω max. | ± 0.3% | ±2.0 kHz |
| 510 - 699 | 100 | 100 | 30Ω max. | ± 0.3% | ±2.0 kHz |
| 700 - 999 | 100 | 100 | 70Ω max. | ± 0.3% | ± 0.5% |
| 1000 - 1250 | 100 | 100 | 100Ω max. | ± 0.3% | ± 0.5% |

## TEST CIRCUIT:




IC：1/6TC4069UBP×2
X：CERAMIC RESONATOR
C1,C2: Load Capacitance

## OPTIONS & PART IDENTIFICATION:

**LXZT - Frequency**

Frequency (kHz)


30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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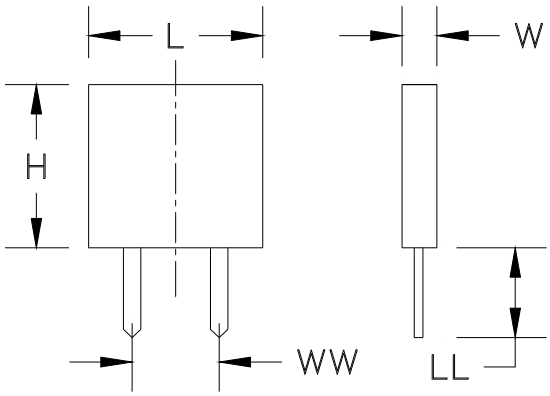
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## OUTLINE DIMENSIONS




Dimension : Inches (mm)

| Frequency Range | L | W | H | LL | WW |
|---|---|---|---|---|---|
| 190-249 kHz | 0.53 (13.5) | 0.14 (3.6) | 0.58 (14.7) | 0.32 (8.0) | 0.39 (10.0) |
| 250-374 kHz | 0.43 (11.0) | 0.14 (3.6) | 0.48 (12.2) | 0.28 (7.0) | 0.30 (7.7) |
| 375-429 kHz | 0.31 (7.9) | 0.14 (3.6) | 0.37 (9.3) | 0.24 (6.0) | 0.20 (5.0) |
| 430-699 kHz | 0.28 (7.0) | 0.14 (3.5) | 0.35 (9.0) | 0.16 (4.0)/0.24 (6.0) | 0.20 (5.0) |
| 700-1250 kHz | 0.20 (5.1) | 0.09 (2.2) | 0.25 (6.3) | 0.16 (4.0) | 0.10 (2.5) |

## CAUTION

- Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- This component is not hermetically sealed. Do not clean or wash the component.
- Reflow Soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during Reflow Soldering.
- Do not expose the component to open flame.
- This specification applies to the functionality of the component as a single unit. The customer is advised to insure that the component is thoroughly evaluated in the application circuit.
- Shelf Life: The warranted Shelf Life of this product is Six Months after the Delivery Date under the conditions of sealed, unopened, original packaging.
- Storage Conditions: If the product is to be stored for a period greater than Six Months after the Delivery Date, it is recommended that the customer confirm the solderability and characteristics for the product prior to use.
- This product is not recommended for use in industrial related Automotive, Medical, Safety, Military, or other high-reliability life dependant applications. Contact Abracon Corporation prior to using this product when in doubt.


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