

LEADED, LOW FREQUENCY kHz BAND CERAMIC RESONATORS

LXZT series

RoHS
Compliant



FEATURES:

- Excellent environmental resistance.
- Standard frequency range from 190kHz to 1250kHz.
- Ammo packaging options.
- 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	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	100pF, C1=C2 (±20%)
Insulation Resistance	100MΩ min. (10VDC)
Operating Temperature	-20°C to + 80°C
Storage Temperature	-30°C to +85°C
Aging Rate (Fosc)	±0.3% max. (10 years)

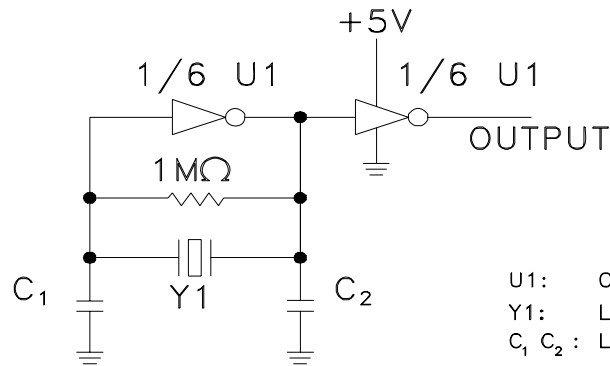
Table 2.1

Frequency Range (kHz)	C1 (pF) ±20%	C2 (pF) ±20%	Resonant Impedance	Frequency Stability at -20°C to +80°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%

OPTIONS & PART IDENTIFICATION:

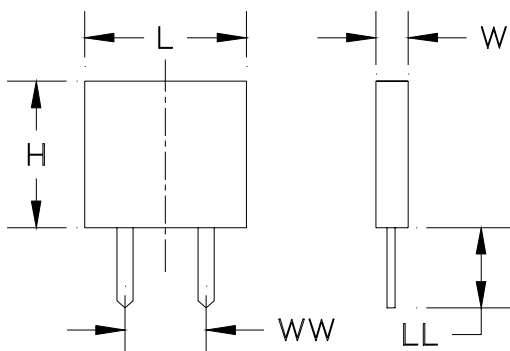
LXZT - Frequency

Frequency (kHz)



U1: CD4069
Y1: LXZT
C₁ C₂: LOAD CAPACITANCE

OUTLINE DIMENSIONS



Frequency Range	L	W	H	LL	WW
190-249 kHz	0.53 (13.5)	0.15 (3.8)	0.58 (14.7)	0.31 (8.0)	0.39 (10.0)
250-374 kHz	0.43 (11.0)	0.15 (3.8)	0.48 (12.2)	0.28 (7.0)	0.30 (7.7)
375-400 kHz	0.31 (7.9)	0.14 (3.6)	0.37 (9.3)	0.24 (6.0)	0.20 (5.0)
401-699 kHz	0.28 (7.0)	0.14 (3.5)	0.35 (9.0)	0.24 (6.0)	0.20 (5.0)
700-1250 kHz	0.20 (5.2)	0.11 (2.8)	0.27 (6.8)	0.14 (3.5)	0.10 (2.5)
1000 kHz	0.20 (5.1)	0.09 (2.3)	0.25 (6.3)	0.16 (4.0)	0.10 (2.5)

