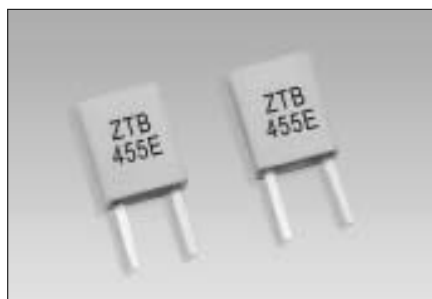




# LOW FREQUENCY 2 PIN TYPE

## • ZTB Series



The ZTB series ceramic resonator is the miniature low profile frequency control products of low frequency from 190KHz to 1250KHz. It is of very competitive price than quartz crystal parts and of high stability that make it substitute the quartz crystal when need lower price.

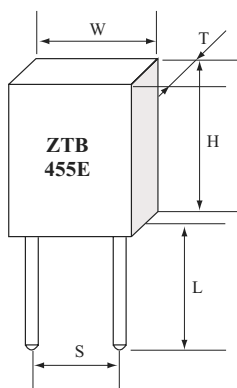
### FEATURES

- Low Cost
- Plastic package
- Low Frequency
- High Stability
- Low Profile
- Small Compact Size

## Electrical Specifications

Part Number	ZTB□□□D	ZTB□□□D	ZTB□□□P	ZTB□□□E	ZTB□□□P	ZTB□□□J	ZTB□□□J
Frequency Range (KHz)	190 to 249	250 to 374	375 to 400	401 to 509	510 to 699	700 to 999	1000 to 1250
Frequency Accuracy(at 25°C) (%)	±1.0KHz	±1.0KHz	±2.0KHz	±2.0KHz	±2.0KHz	±0.5%	±0.5%
Stability in Temperature -20°C to +80°C (%)	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Aging For Ten Years(%)	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Resonator Resistance(Ω) Max	20	20	20	20	30	70	100
Load Capacitance C1(pF)	330	220	120	100	100	100	100
Load Capacitance C2(pF)	470	470	470	100	100	100	100

## Mechanical Dimensions(mm)



Frequency Range (KHz)	W(mm) Width	T(mm) Thickness	H(mm) Height	S(mm) Lead Space	L(mm) Lead Length
190 to 249	13.5	3.8	14.7	10.0	8.0
250 to 374	11.0	3.8	12.2	7.7	7.0
375 to 400	7.9	3.6	9.3	5.0	7.7
401 to 699	7.0	3.5	9.0	5.0	4.0(6.0)
699 to 1250	5.2	2.8	6.8	2.5	3.5(5.0)
1000J	5.1	2.3	6.3	2.5	4.0

## Test Circuit For MOS IC

