

Through Hole Ceramic Resonators

U.S.Electronics Inc.

ZTB Series

Ph:(314) 423 7550

Compatible to Murata CSB: 190 - 1250 KHz

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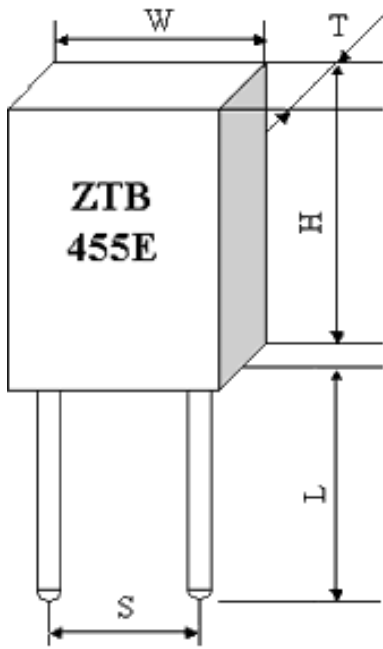
ZTB (KHz) Series is designed to provide the design engineer with a rugged, relatively low frequency device in the frequency range of 190 KHz to 1,250 KHz. Initial frequency tolerance is $\pm 0.5\%$ which compares very favorably to the nominal $\pm 2\% \sim \pm 3\%$ requirements of one chip microprocessors. ZTB series utilizes the area vibration mode of the piezoelectric ceramic element.

TECHNICAL CHARACTERISTICS:

Part Number	Frequency Accuracy (at 25°C)	Resonant Impedance (Ohm) max.	Stability in Temperature (-20°C ~ +80°C)	Aging For 10 Years (%)	Load Capacitance (pF)	
					C1	C2
ZTB190D ~ ZTB 249D	± 1 kHz	≤ 20	± 0.3	± 0.3	330	470
ZTB250D ~ ZTB 374D	± 1 kHz	≤ 20	± 0.3	± 0.3	220	470
ZTB375P ~ ZTB 429P	± 2 kHz	≤ 20	± 0.3	± 0.3	120	470
ZTB430E ~ ZTB 509E	± 2 kHz	≤ 20	± 0.3	± 0.3	100	100
ZTB510P ~ ZTB 699P	± 2 kHz	≤ 30	± 0.3	± 0.3	100	100
ZTB700J ~ ZTB 999J	$\pm 0.5\%$	≤ 70	± 0.3	± 0.3	100	100
ZTB1000J ~ ZTB1250J	$\pm 0.5\%$	≤ 100	± 0.3	± 0.3	100	100

Frequency Range (kHz)	W(mm) width	T(mm) Thickness	H(mm) Height	S(mm) Lead Space	L(mm) Lead Length
190~249	13.5	3.8	14.7	10.0	8.0
250~374	11.0	3.8	12.2	7.7	7.0
375~400	7.9	3.6	9.3	5.0	7.7
401~699	7.0	3.5	9.0	5.0	4.0
700~1250	5.2	2.8	6.8	2.5	4.0
1000J	5.1	2.3	6.3	2.5	4.0

ZTB (kHz) DIMENSION (Unit: mm Tolerance :±0.3mm)



ZTB (kHz) TEST CIRCUIT

