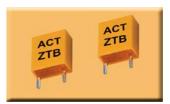


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## **ACT ZTB Through Hole Resonators**

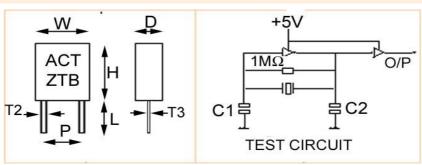
The **ACT ZTB** family of Ceramic Through Hole Resonators offers a cost effective solution for applications requiring good stability over a wide temperature range, together with accuracy.



## **Specification**

Part Type/ Number	Frequency range KHz	Frequency accuracy	Resonant imp. (W)	Stability over temp. range	Aging over 10 years	Ext. Capacitance (pF)	
		@25°C		(-20 +80°C)(%)	(%)	C1	C2
ZTB	190 ~ 249	±1KHz	<20	±0.3	±0.3	330	470
	250 ~ 374	±1KHz	<20	±0.3	±0.3	220	470
	375 ~ 429	±2KHz	<20	±0.3	±0.3	120	470
	430 ~ 509	±2KHz	<20	±0.3	±0.3	100	100
	510 ~ 699	±2KHz	<30	±0.3	±0.3	100	100
	700 ~ 1000	±0.5%	<70	±0.3	±0.3	100	100
	1001 ~ 1250	±0.5%	<100	±0.3	±0.3	100	100

Vibration Mode: Area vibration



Compatible with Eu Directive 2002/95/EC - RoHS Contains Pb in ceramic parts exempted from article 4(1) of the directive

<b>Dimensions</b>	Type No.	Freq. (KHz)	Н	W	D	Р	L	T2/T3
mm	ZTB	190 ~ 249	14.7	13.5	3.8	10.0	8.0	0.9/0.15
		250 ~ 374	12.2	11.0	3.8	7.7	7.0	0.9/0.15
		375 ~ 410	9.3	7.9	3.6	5.0	7.7	0.9/0.15
		411 ~ 699	9.0	7.0	3.5	5.0	4.0~6.0	0.9/0.23
		700 ~ 1250	6.3	5.1	2.3	2.5	4.0	0.7/0.23
		Tolerance	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-0.1 / +/-0.05

## Important note when using Ceramic resonators with micro controllers

Some resonator parameters vary considerably with frequency and physical construction/size . These differences are too great to be able to be practically shown in a data sheet.

However these parameters can be critical when the resonators are used with micro controllers. Even if two different resonators appear to have the same specification the typical values of these critical parameters can be considerably different. When enquiring about resonators for use with micro controllers it is important to supply the make and part number of the IC to be used and/or the list of recommended resonators if this is given.

Please note that all parameters can not necessarily be specified in the same device

Customer to specify: Frequency

In line with our ongoing policy of product evolvement and improvement, the above specification may be subject to change without notice ISO9001:2000 Registered

For quotations or further information please contact us at:

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Issue :7 C1r Date :17/08/06