



Tel : 0044 (0)118 979 1238
 Fax : 0044 (0)118 979 1283
 email : info@actcrystals.com

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

ACT ZTA Through Hole Resonators

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

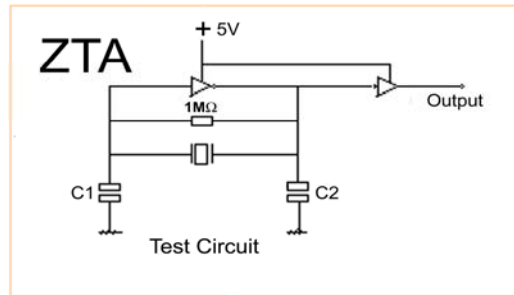
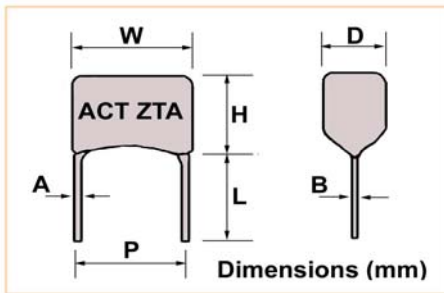


Specification

Part Type/ Number	Frequency Range MHz	Test IC	Vdd	Frequency accuracy @25°C (%)	Stab. over temp.Range (-20 +80°C)(%)	Aging over 10 years (%)	External Capacitance (pF) C1 & C2
ZTA MG	1.80 ~ 8.00	CD4069UBE x 2	+5V	±0.5	±0.3	±0.3	30 (over range)
ZTA MT	8.00 ~ 13.00	CD4069UBE x 2	+5V	±0.5	±0.3	±0.3	30 (over range)
ZTA MX	13.01 ~ 60.00##	74HCU04 x 2	+5V	±0.5	±0.3	±0.3	30 (13.01~20.0MHz) 15 (20.01~25.99MHz) 5 (26.00~60.00MHz##)

##Specification for frequencies from 50 to 60MHz may vary from above please enquire.

Vibration Mode: MG Thickness Shear , MT Thickness Expander, MX Thickness Expander (Third Overtone)



Type No.	Freq. (MHz)	Dimensions mm (max)						
		H	W	D	P	L	A	B
ZTA MG	1.79 ~ 8.00	7.5	10	5	5.0±0.3	5.0±0.1	0.5±0.1	0.3±0.1
ZTA MT	8.00 ~ 13.00	10	10	5	5.0±0.3	5.0±0.1	0.5±0.1	0.3±0.1
ZTA MX	13.01 ~ 23.99	10	10	5	5.0±0.3	5.0±0.1	0.5±0.1	0.3±0.1
	24.00 ~ 31.99	7.5	10	5	5.0±0.3	5.0±0.1	0.5±0.1	0.3±0.1
	32.00 ~ 60.00	6.5	10	5	5.0±0.3	5.0±0.1	0.5±0.1	0.3±0.1

Important note when using Ceramic resonators with microcontrollers

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 microcontrollers. 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 microcontrollers 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, Package Type and Size

In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

Issue : 7 C1r

Date : 07-03-2008