

ACT ZTA Through Hole Resonators

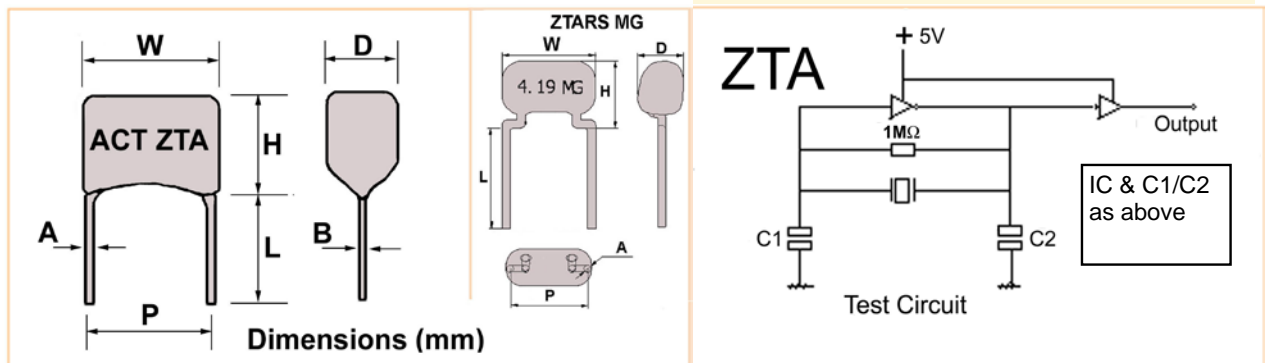
The ACT ZTA family of Ceramic Through Hole Resonators offers a cost effective solution for applications requiring accuracy and a wide temperature range.



Specification

Part Type/ Number	Frequency Range MHz	Test IC	Vdd	Frequency accuracy @25°C (%)	Stability over temp. range (-20 +85°C)(%)	Aging over 10 years (%)	Internal Cap. (pF) C1 & C2
ZTA RS	6.00~12.00	TC4069UBP X 2	+5V	±0.5	±0.3	±0.3	15
ZTA WS	1.84~6.00	TC4069UBP X 2	+5V	±0.5	±0.3	±0.3	30
ZTA MT	6.00 ~ 13.00	TC4069UBP X 2	+5V	±0.5	±0.3	±0.3	30
ZTA MX	12.0 ~ 20.00						22
	20.01 ~ 26.00	74HCU04 x 2	+5V	±0.5	±0.3	±0.3	15
	26.01 ~ 60.00##						5
ZTARS MG**	3.00 ~6.00	TC4069UBP X 2	+5V	±0.5	±0.3	±0.3	15

Vibration mode: RS/WS=MG Thickness shear MT Thickness expander MX Thickness expander (third overtone)
 ** ZTARS Not recommended use ZTAWS , ZTA MT rarely used for 6~12MHz use ZTTRS



Type No.	Frequency MHz	H	W	D	P	L	A	B
ZTARS	0	5.5	6	3.1	5.0 ±0.2	3.5 ±0.5 #		0.48±0.05 dia
ZTAWS	1.84~6.00	5.5	9.5	4	5.0 ±0.2	5.0 ±0.1	0.5 ±0.1	0.25 ±0.1
ZTA MT	0	10	10	5	5.0 ±0.2	5.0 ±0.1	0.5 ±0.1	0.3 ±0.1
ZTA MX	12.00 ~ 13.00	12	10	5	5.0 ±0.2	5.0 ±0.1	0.5 ±0.1	0.3 ±0.1
	13.01 ~ 60.00	10	10	5	5.0 ±0.2	5.0 ±0.1	0.5 ±0.1	0.3 ±0.1

Note MOQ 500 pieces, apart from development samples and thereafter quantities in multiples of 500 pieces

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.

For quotations or further information please contact us at:

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

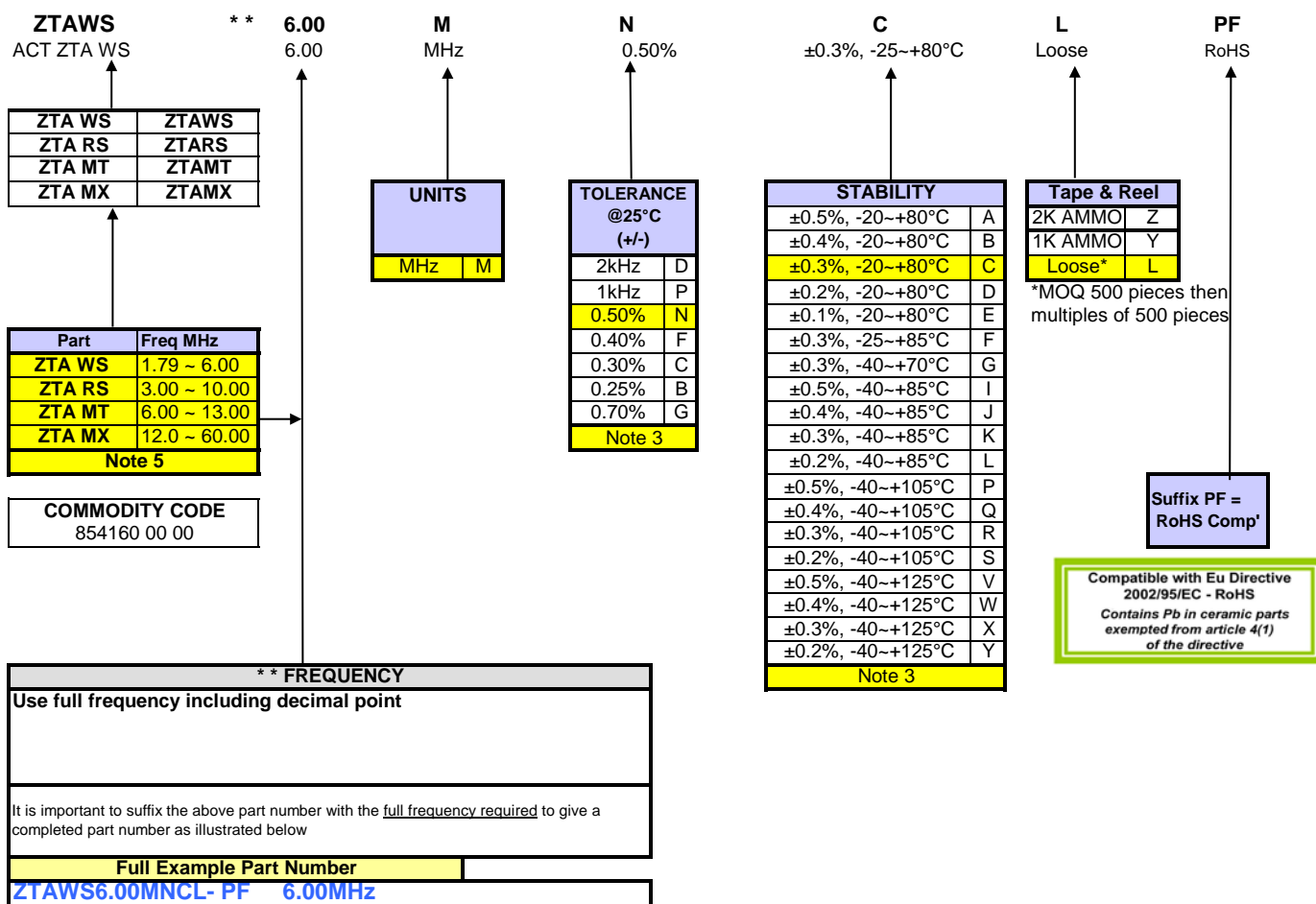
<http://www.actcrystals.com>

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ACT CERAMIC RESONATORS- PART NUMBERING & COMMODITY CODE

Standard (Popular) Specifications Highlighted - Others available (Note 3)



- 1) Tighter Stabilities, tolerances, Output Loads and Operating Temperature Ranges may be available.
 As each of these specification parameters may impact on each other, it is not always possible to combine all options in one device. Therefore, if a specification not catered for above is required, please contact us directly for assistance.
- 2) ACT are always happy to consider truly custom specification parts which may require non-standard specification parameters, specific testing, customer requested AQL requirements, non standard packaging or taping and reeling and custom marking. (MOQ DEPENDENT) Such devices would normally be allocated a custom specification
 (An ACT ZTA WS device may have a part number such as : ZTAWs6.00-C1501-PF)
- 3) Enquire if a stability and / or tolerance other than the standard(s) highlighted in yellow is required.
- 4) MOQ 500 pieces, apart from development samples and thereafter quantities in multiples of 500 pieces
- 5) ZTA RS Not recommended for 3.00 ~6.00MHz use ZTA WS MG , ZTA MT rarely used for 6~12MHz use ZTA RS

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