

ACT Series: ZTACS

Surface Mount Ceramic Resonator (Two pad, No built in Capacitor)

Features

- Two pad surface mount Ceramic resonator
- · No built in capacitors
- Excellent temperature range
- Resonator vibrating mode: MT = Thickness expander mode

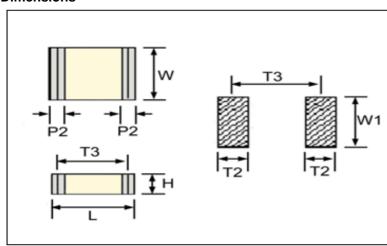
MX = Thickness expander mode (3rd Overtone)



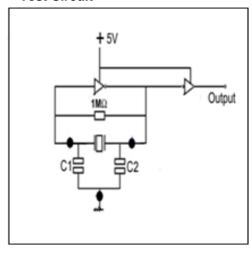
Specification

Туре	Frequency Range	'		Operating Temperature	Aging over 10 Years	Notes	
	(MHz)	(25°C)(%)	(-25 ~ +85°C) (%)	(°C)	(%)		
ZTACS_MT	6.0 ~ 13.0	±0.5	±0.4	-25 ~ +85°C	±0.3	Fundamental mode	
ZTACS_MX	13.01 ~ 60.0	±0.5	±0.3	-25 ~ +85°C	±0.3	3rd Overtone mode	

Dimensions



Test Circuit



Dimension Table (Unit: mm)									Test Circuit Parameters:		
Part Type	Frequency	L	W	Н	P2	T1	Т3	W1	IC (MT) 1/6TC4069UBP x 2		
		±0.2	±0.2	MAX	±0.2	±0.2	±0.2	±0.2	IC (MX) 1/6TC74HCU04 x 2		
ZTACS_MT	4.0 ~ 8.0	4.7	4.1	1.6	0.8	0.8	2.0	5.1	C1=C2(MT): 30pF		
ZTACS_Mx								3.1	C1=C2(MX): 30pF(13.01~20.0MHz)		
				•					C1=C2(MX): 15pF(20.01~25.99MHz)		
									C1=C2(MX): 5pF (26.0~60.0MHz)		
							VDD = +5V				

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.

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COMMODITY CODE 854160 00 00

PART NUMBERING & COMMODITY CODE											
Standard (Popular) Specifications Highlighted in Yellow - Others available please check Note.3											
ZTACS 8.00		М	N		F		L PF				
ZTACS_MT	Frequency	MHz	Freq.Tol. 0.5%		Stability:±0.3%,-25~-	Loose	RoHS √	[
1	2	3	4		5	6	7	-			
1		4			(5)		(6)				
ACT Series Code		Freq.			Stability	Code		pe & Reel	Code		
ZTACS_MT ZTACC		Tolerance	Code		±0.5%, -20~+85°C	Α		4000	F		
ZTACS_MX ZTACS		2kHz	R		±0.4%, -20~+85°C	В		3000	D		
		1kHz	Р		±0.3%, -20~+85°C	С		1000	С		
2 Frequency		0.70%	Т		±0.2%, -20~+85°C	D		Loose	L		
Use full frequency includir	ng	0.50%	N		±0.1%, -20~+85°C	Е					
decimal point.		0.40%	S		±0.2%, -25~+85°C	Н	7				
		0.30%	0		±0.3%, -25~+85°C	F		RoHS	Code		
3	0.25%	Q		±0.4%, -25~+85°C	М	Ar	pproved √	PF			
Unit Code	Note 3			±0.3%, -40~+70°C	G						
MHz M				±0.5%, -40~+85°C	I						
					±0.4%, -40~+85°C	J					
					±0.3%, -40~+85°C	K					
					±0.25%, -40~+85°C	L					
					±0.5%, -40~+105°C	Р					
		±0.4%, -40~+105°C ±0.3%, -40~+105°C	Q								
Evample Full	Dort Number	±0.3%, -40~+105°C	R								
Example Full For 6.00MHz Order Z	±0.2%, -40~+105 C ±0.5%, -40~+125°C	S V									
Ful b.uulvinz Order Z	. I ACSO.UUIVINFI	±0.5%, -40~+125°C	W								
					±0.3%, -40~+125°C	X					
					±0.2%, -40~+125°C	Ŷ					
					Note 3	•					

Notes:

- 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 ZTACS_MT' type device may have part number such as ZTACS6.00-C1501-PF).

3) Enquire if a stability and / or tolerance other than the standard(s) highligted in yellow is required.

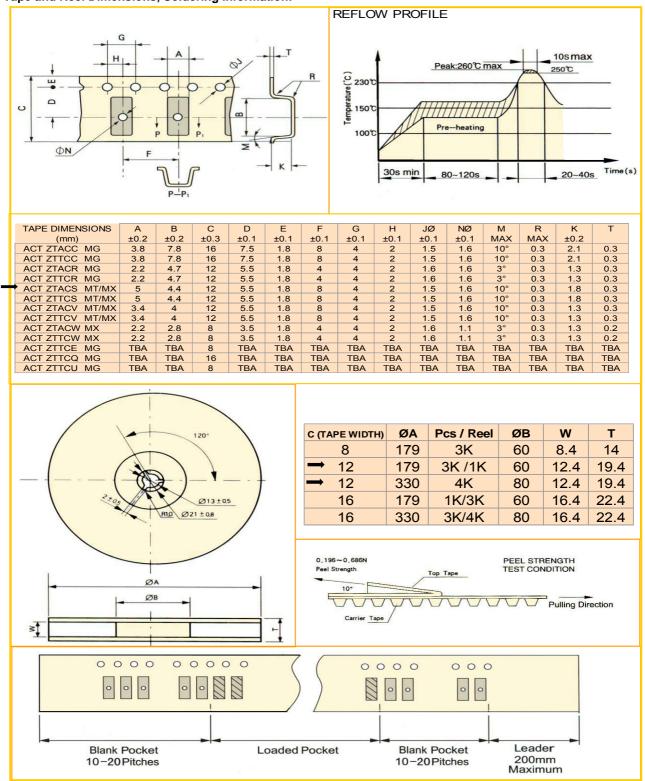
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Tape and Reel Dimensions, Soldering Information:



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