

# MHZ SMD CERAMIC RESONATORS

## MAIN FEATURE

- Extra SMD Package, 3 pads • Built-in Capacitance

## APPLICATION

- Clock oscillators for microprocessors
- Small electronic equipment and more



L3.7\*W3.1\*H1.5mm

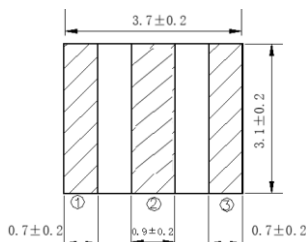
## STANDARD SPECIFICATION

Parameter	Value			Unit	Condition
	Min.	Type	Max.		
Frequency Range	8.00		60.00	MHz	see p/n guide or Specify
Frequency Accuracy		±0.5		%	@25 °C
Operating Temperature Range	-25	-	+85	°C	
Storage Temperature Range	-55	-	+85	°C	
Built-in Capacitance		30	-	pF	MT(8.00~13.00MHz)/MX (16.00~20.00MHz)
		15	-		MX: 20.01~25.99MHz
		5	-		MX: 26.00~60.00MHz
Temperature Coefficient	-	±0.3	-	%	Oscillation Freq. drift @-25 °C ~+85 °C
Resonant Impedance	-	-	40	ohm	
Aging per year*	-	-	±0.3	%	From initial value
Withstanding Voltage		50		V	DC, 5s Max.
Insulation Resistance Ri	500			MΩ	10V, 1min
Rating Voltage UR		6		V	DC
		15		V	p-p AC
IC	MX: 1/6TC74HCU04. MT: 1/6TC4069UBP				

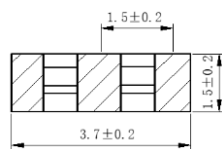
\* Parts shall be left in a chamber of +85 °C ±2°C for 1000 hours, then measured after leaving in natural condition for 1 hours.

## DIMENSION (mm)

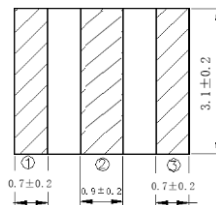
Top View



Side View

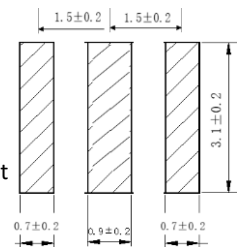


Bottom View



Solder Pattern

Connection  
#1 In/Output  
#2 Ground  
#3 Output/Input



## PART NUMBER GUIDE

Example: CRTV 16.0MX TLF

CR	T	V	16.0	MX	T	LF	XX
1	2	3	4	5	6	7	8

- 1) CR: SMD Ceramic Resonator
- 2) T: Built-in Capacitance , 3 Pads, different value pF for frequency range
- 3) V: Outline Dimensions L3.7\*W3.1\*H1.5mm
- 4) 16.0: Frequency Range in MHz, 16.000MHz or Specify
- 5) MX: Design Mode for different Frequency range; MT: 8.00~13.00MHz; MX:16.00~60.00MHz
- 6) T: Package in Tape/Reel, 4000pcs/Reel
- 7) LF: RoHS Compliant
- 8) XX: Intenal Control Code; Blank: N/A

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