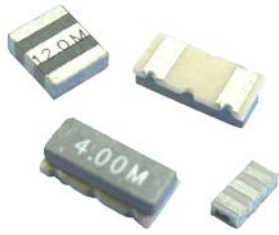


Ceramic Unit

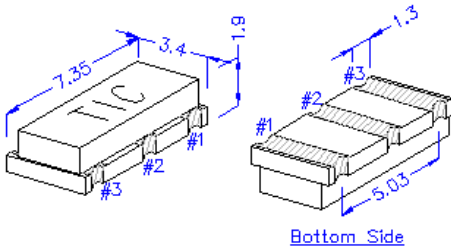


Chip Type Resonator



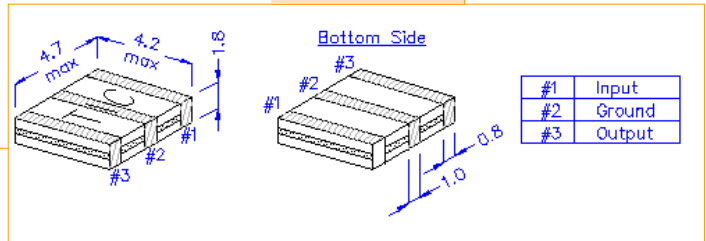
- mini Surface Mount Device
- ZTA (without built-in capacitors) and ZTT (built-in capacitors) available
- used for microprocessor.

CC



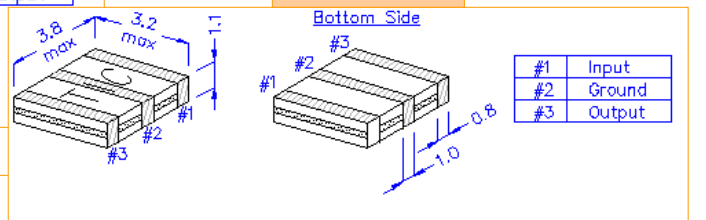
#1	Input
#2	Ground
#3	Output

CS



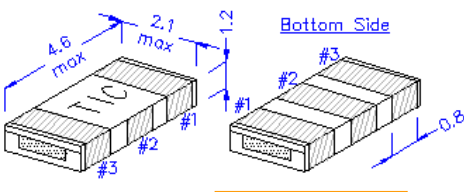
#1	Input
#2	Ground
#3	Output

CV



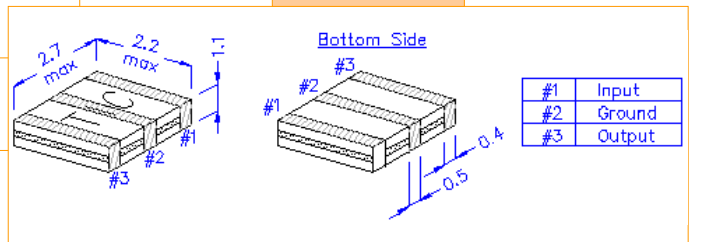
#1	Input
#2	Ground
#3	Output

CR



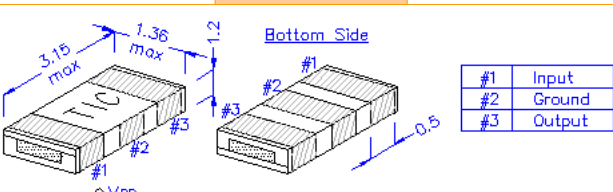
#1	Input
#2	Ground
#3	Output

CW

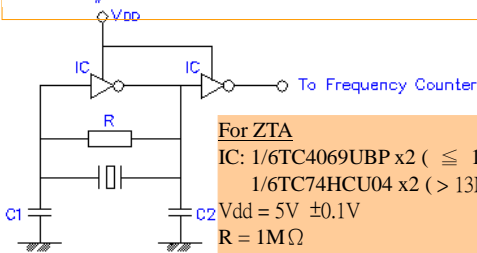


#1	Input
#2	Ground
#3	Output

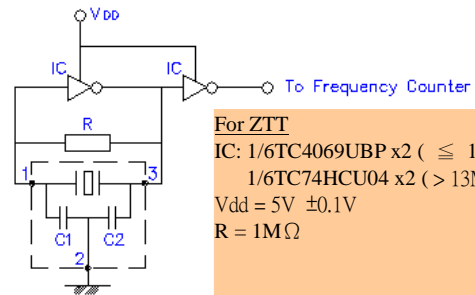
CE



#1	Input
#2	Ground
#3	Output



For ZTA
 IC: 1/6TC4069UBP x2 ($\leq 13\text{MHz}$)
 1/6TC74HCU04 x2 ($> 13\text{MHz}$)
 $V_{dd} = 5\text{V} \pm 0.1\text{V}$
 $R = 1\text{M}\Omega$



For ZTT
 IC: 1/6TC4069UBP x2 ($\leq 13\text{MHz}$)
 1/6TC74HCU04 x2 ($> 13\text{MHz}$)
 $V_{dd} = 5\text{V} \pm 0.1\text{V}$
 $R = 1\text{M}\Omega$

	CC	CR	CE	CS	CV	CW
1.84 ~ 3.99 MHz						
4.00 ~ 8.00 MHz						
8.00 ~ 12.00 MHz						
12.01 ~ 16.00 MHz						
16.93 ~ 50.00 MHz						