#### 1. Scope:

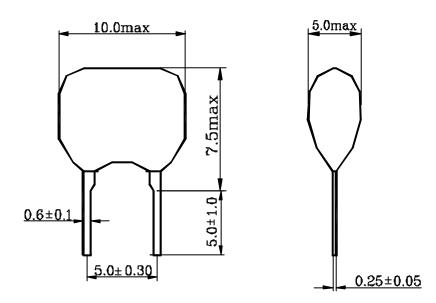
The specification is fit for ceramic resonator 1.84-6.00MHz.

#### 2. Model Name:

Model Name	Customer's part number	Customer's spec number
ZTA. MG		

#### 3. Outside Dimensions:

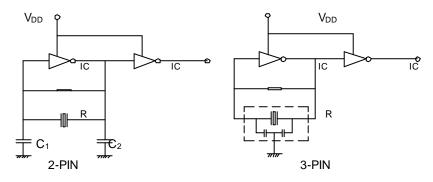
- 3-1 Outsider: The mark is clear. The appearance is smooth, non-dirty & non-damage.
- 3-2 Outsider dimension:



#### 4. Electrical Characteristics:

No.	ltem	Characteristics	
INO.		ZTA. MG	
4-1	Oscillate Frequency (MHz)	1.84-6.00	
4.2	Frequency Tolerance max	±0.5%	
4.3	Resonant Impedance $\max(\Omega)$	30	
4.4	Built – in Capacitance (PF)		
4.5	Insulate Resistance $\min(M\Omega)$	100	
4.6	Withstanding Voltage D.C(V)	100 (max 5 sec)	
4.7	Voltage (1) D.C Voltage max (V) (2) Input Voltage max (V)	6 15Vp-p	
4.8	Temp characteristics of Oscillate frequency max	±0.3%	
4.9	Operating Temp Range (℃)	-20 ~ +80	
4.10	Storage Temp (℃)	-55 ~ +85	

### 5. Test Circuit:



IC: 1/6TC4069UBE×2

 $V_{DD}$ :  $+5V\pm0.1V$  R:  $1M\Omega$ 

C<sub>1</sub> · C<sub>2</sub>: 30PF

## 6. Physical and Environmental Characteristics:

No	Item	Condition	Result	
6-1	Terminal strength	Force of 1kg is applied to each lead in axial direction, keep for 10sec, then force of 0.5kg is applied to each lead in aerial direction. The lead shall be bend 90 ° degree in one direction, then in the opposite direction and return to normal.		
6-2	Resistance to soldering heat	Lead terminals are immersed up to 2.0mm of body in a solder bath (260±5°C), keep for 5±0.5sec, then return to normal temp. For 24±2hrs.	Non-evident damage and meet table-1, the mark is clear.	
6-3	Thermal shock	Temp:-55~+85 ℃, 5cycles, keep for 30min, return to normal temp, for 24±2hrs.	Non-evident	
	Vibration	Vibration:frequency:10~55Hz, amplitude:1.5mm, keep for 6hrs.	damage and meet table-1, the mark is clear.	
	Shock	Va: 294m/s², pulse time: 18ms₌	io olour.	
6-4	High temperature	Temp: +85℃, keep for 16hrs.		
	Damp & heat(cyclic)	Trial Db, the first circle	Non-breakthrough, or arc and meet	
	Low temperature	Temp: -55℃, keep for 2hrs.	table-1, non-evident	
	Low air pressure	Air press: 8.5kPa keep for 2hrs.	damage the mark is clear.	
	Damp & heat (cyclic)	Trial Db, the rest cycles, return to normal temp for 24±2hrs.		
6-5	Damp & heat (steady state)	Temp: 40±2 <sup>1</sup> C, humidity: 90~95%. Keep for 500hrs, return to normal temp for 24±2hrs.	Non-evident damage, the mark is clear, meet table-1.	
6-6	Life test	Temp:+85 <sup>®</sup> C , keep for 1000hrs, return to normal temp for.  Meet table-1.		

# Table 1

No.	Test item	The value can be changed
1	Oscillate frequency max	±0.3%
2	Resonant impedance $(\Omega)$ max	±5
3	Insulate resistance (M $\Omega$ ) min	100