



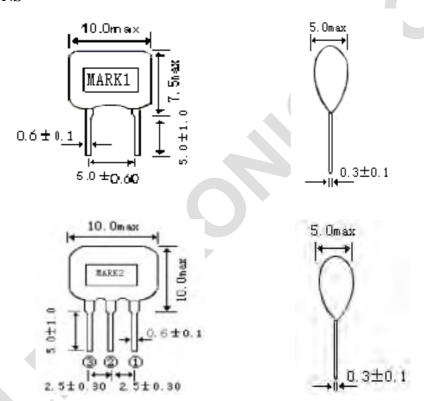
#### **SCOPE** 1.

This specification is applied to the ceramics resonator used for the clock Oscillation of Microprocessor.

### **MODEL NAME**

Part Name	Customer's Part number	Drawing No.
ZTA26.0050.00MX		
ZTT26.0050.00MX		

#### **DIMENSIONS** 3.



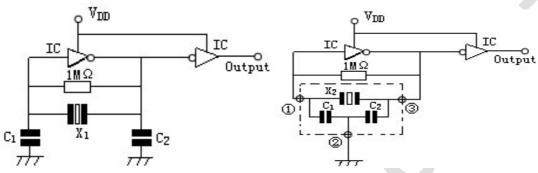
MARK 1: ZTA26.00--50.00MX MARK 2: ZTT26.00--50.00MX





### 4. TEST CIRCUIT

Parts shall be measured under a condition (Temp.: $3\sim35$  °C.Hum.: $45\sim85\%$ ) unless any Necessity to measure under a standard condition (Temp.: $20\pm2$  °C.Humi.: $65\pm5\%$ ) is occurred.



X1: ZTA26.00--50.00MX

X2: ZTT26.00--50.00MX

C1=C2=5PF

IC: 1/674HCU04 VDD=+5V

### 5. ELECTRICAL CHARACTERISTICS

	Item	Requirements	
5-1	Frequency Accuracy	26.0050.00M±0.5%	
5-2	Resonant Impedance	35 Ω max	
5-3	Operating Temperature Range Storage Temperature Range	-20 to +80 -30 to +85	
5-4	Stability Temperature	±0.3% max. (−20−+80°C)	
5-5	Withstanding Voltage	DC 100V. (less than 5 sec)	
5-6	Insulation Resistance	100 M Ω min (DC 10V)	
5-7 Aging for 10 Years		±0.5±% max	





### 6.PHYSICAL AND ENVIRONMENTAL CHARCTERISTICS

	Test Item	Condition of Test	Requirements	
	Lead strength	Force of 1 Kg is applied for 10 second to each lead in	No mechanical damage	
6-1		axial direction.	and the measured	
	Lead Bending	Firmed the terminal up to 2mm. Resonator lead	values shall meet Item	
		shall be subjected to withstand against 90° bending	5.	
		its stem. This operation shall be done toward both		
		directions.		
	Solder ability	The terminals of the Resonator shall be immersion	The solder shall for coat	
6-2		in a soldering bath (230±5°C) for 3±0.5sec. (refer to	at least 95% of the	
		Mil-STD-202E-208C)	terminal.	
	Vibration	Resonator shall be measured after being		
6-3		Applied vibration as below.		
		Vibration Freq: 10-55Hz		
		Amplitude: 1.5mm		
		Directions: 3 axial directions		
		Time: 2 hour/each direction	The measured values	
	Random Drop	Resonator shall be measured after 3 times	Shall meet table l	
6-4		Random dropping from the height of 1m.		
		Concrete floor		
	Resistance to	Dipped in (350±10℃) measured solder to a point	ped in (350±10°C) measured solder to a point	
6-5	Soldering	1.5mm from Resonator body for 3±0.5 sec or dipped		
	Heat	in (260±5°C) melted solder for 10±1 sec. Resonator		
		shall be measured after being placed in natural		
		condition for 1 hour.		





# 6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Item	Condition of Test	Requirements
6-6	Humidity	After being placed in a chamber (Humi: 90-95 % RH Temp:40±2 °C ) for 96 hours Resonator shall be measured after placed in natural condition for 1 hour.	
6-7	Life Test (High temperature)	After being placed in a chamber 85±2°C for 96 hours, Resonator shall be measured after being placed in natural condition for 1 hour.	The measured values Shall meet table l
6-8	Life Test (Low temperature)	Stored in a chamber (Temp:-20±2°C) for 1000 hours, Resonator shall be measured after being placed in natural condition for 1 hour.	
6-9	Thermal shock	After temperature cycling of -20°C (30 min) to +80°C (30min) was performed 5 times the Resonator shall be measured after being placed in natural condition for 1 hour.	

## Table 1

Item	Limit Value
Frequency shift	F/FO≤±0.3%
Resonant Impedance	Zr≤5Ω

Note: The limits in the above table are referenced to the initial Measurements.





- 7. NOTICE
- 7.1 Ceramic Resonator should be stored in storeroom. And the surrounding atmosphere is acid less, alkali-free and no other harmful impurity.
- 7.2 The package for ceramic damage.
- 7.3 This specification limits the quality of the component as a single unit.

  Please make sure that the component is evaluated and confirmed the drawing When it is mounted to your product.

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