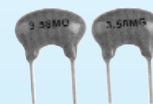


# PRODUKT-INFO

## ZTA SERIES RESONATOR

### FEATURES

1. Wide frequency range.
2. Low Cost.
3. High Stability.
4. Small compact size.

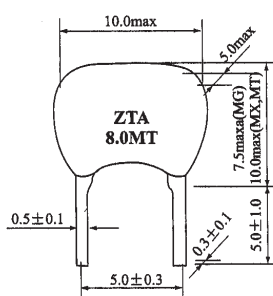


Actual Size

ELECTRICAL SPECIFICATIONS					
Model	ZTA ... MG			ZTA ... MT	ZTA ... MX
Frequency Range	1.8 to 2.99 MHz	3.0 to 3.49 MHz	3.5 to 5.99 MHz	6.0 to 12.99 MHz	13.0 to 50.0 MHz
Frequency Accuracy (at +25°C) (%)	±0.5	±0.5	±0.5	±0.5	±0.5
Stability in Temperature -20°C to +80°C (%)	±0.3	±0.3	±0.3	±0.3	±0.3
Aging for 10 years (%)	±0.3	±0.3	±0.3	±0.3	±0.3
Resonator Resistance (Ω) max.	80	50	30	25	35
Withstanding Voltage (5 sec. max.)	100V <sub>DC</sub>	100V <sub>DC</sub>	100V <sub>DC</sub>	100V <sub>DC</sub>	100V <sub>DC</sub>
Insulation Resistance min. (at 10V <sub>DC</sub> )	5 x 10 <sup>8</sup> Ω	5 x 10 <sup>8</sup> Ω	5 x 10 <sup>8</sup> Ω	5 x 10 <sup>8</sup> Ω	5 x 10 <sup>8</sup> Ω

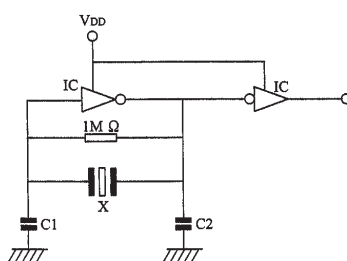
PART NUMBER	FREQUENCY RANGE	CIRCUIT CONSTANTS	
		C1 (PF)	C2 (PF)
ZTA...MG, MT	1.8 to 2.99 MHz	30	30
ZTA...MX	13.0 to 19.99 MHz	30	30
	20.0 to 25.99 MHz	15	15
	26.0 to 50.0 MHz	5	5

Dimensions (Units: mm)



MT: 10 max.  
MX: 13.01 to 23.99 MHz, 10 max.  
24.00 to 31.99 MHz, 7.5 max.  
32.00 to 50.00 MHz, 6.5 max.

Test Circuit for MOS IC



X: Ceramic Resonator  
V<sub>DD</sub> (MG MX): +5V  
(MT) : +12V  
IC (MG MT): 1/6TC4069UBP×2  
(MX): 1/6TC7HCU04×2

10.0 x 10.0/15.0

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All specifications subject to change without notice.