

Main Feature

- RoHS/RoHS Compliant
- 2 Pins
- Low cost and short lead time



Application

- Microprocessor Systems
- Data Communications



Standard Specification

Frequency Range: 2.0000~50.0MHz

Frequency Accuracy At 25°C : ±0.5%

Temp. Stability At -20°C ~80°C : ±0.3%

Load Capacitance C1,C2: MG & MT: 30pF

MX: 30pF (12.10~19.99MHz), 15pF (20.00~25.99MHz), 5pF (26.00~50.00MHz)

Operating Temp. Range: -20°C ~+80°C

Storage Temp. Range: -40°C ~+85°C

Equivalent Series Resistance (ESR): 80Ω Max. (2.000~2.99MHz), 50Ω Max. (3.000~3.49MHz)

30Ω Max. (3.500~8.00MHz), 25Ω Max. (8.010~12.0MHz),

30Ω Max. (12.01~50.0MHz)

Supply Voltage VDD: MG & MX: +5V, MT: +12V

Withstanding Voltage (5Sec Max.): 100V DC

Insulation Resistance(Ω): 5X10<sup>-8</sup> Ω (+10V DC)

Aging (Over 10 years): ±0.3ppm

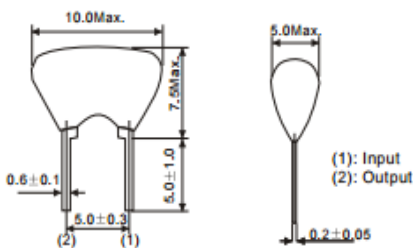
Applicable IC: MG & MT: 1/6TC4069UBP, MX: 1/6TC74HCU04

\*Specifications Subject to Change Without Notice

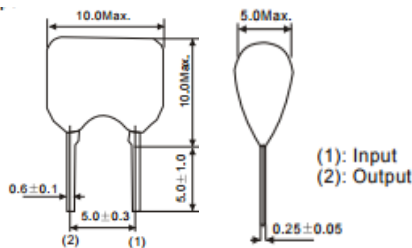
\*\*Please specify frequency Range before order/Inquiry

Dimension (Unit: mm)

MG Type



MT & MX Type



TEST CIRCUIT FOR MT ,MT& MX TYPES

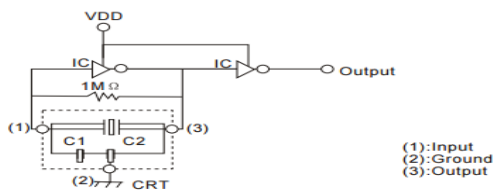


Table 1

Design Mode	Freq. Range	Option Code
Thickness Shear	2.000 ~ 8.00 MHz	G
Thickness Expander Mode	5.000 ~ 13.0 MHz	T
Thickness Expander Mode (3rd Overtone)	13.01 ~ 50.0 Mhz	X

TGS part No. Guide

TGS	CR	A	3.58M	G	B
	1	2	3	4	5

- 1) CR: Ceramic Resonator
- 2) A: Without built-in Capacitance
- 3) 3.58M: Freq. Range
- 4) G: Design Mode (see Table 1)
- 5) B: Bulk (Package)