

Main Feature

- RoHS/RoHS Compliant
- SMD type
- Low cost and short lead time



3.7X3.1X1.2mm

Application

- Consumer Electronics
- Communications



Standard Specification

Frequency Range: 13.01 ~ 50.00MHz
 Frequency Accuracy : ±0.5%
 Temp. Stability At -20°C ~ +80°C: ±0.3%
 Load Capacitance C1, C2: MT: 30pF (13.01 ~ 40.00MHz)
 MX: 5pF (40.01 ~ 50.00MHz)
 Operating Temp. Range: -20°C ~ +80°C
 Storage Temp. Range: -40°C ~ +85°C
 Equivalent Series Resistance (ESR): 25 ohm Max. 8.00 ~ 40.00MHz
 40 ohm Max. 40.01 ~ 50.00MHz

Withstanding Voltage: 50V DC 1minute
 Rating Voltage: D. C. Voltage: 6V. D. C.
 A. C. Voltage: 15Vpp
 Insulation Resistance : 100M ohm Min. (at 10V DC)
 Aging (Over 10 years): ±0.5% ppm
 Supply Voltage VDD: +5.0V

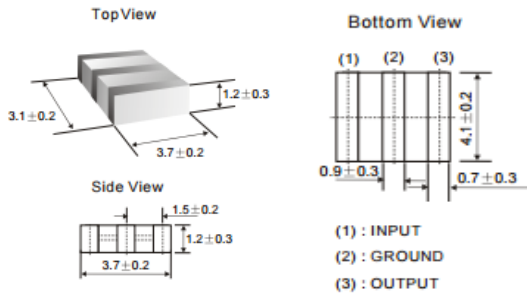
Design Mode: See Table 1

Table 1

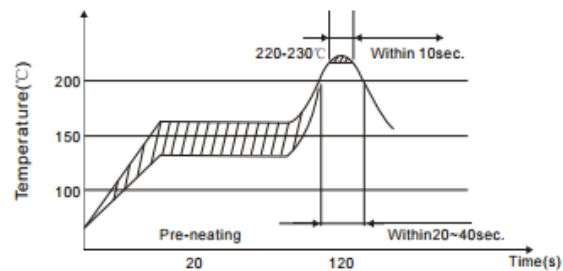
Design Mode	Freq. Range	Option Code
Thickness Expander Mode	13.01 ~ 40.0 MHz	T
Thickness Expander Mode (3rd Overtone)	40.01 ~ 50.0 MHz	X

*Specifications Subject to Change Without Notice
 **Please specify frequency Range before order/Inquiry

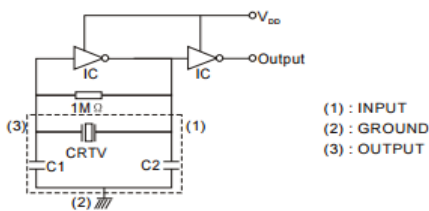
Dimension (Unit: mm)



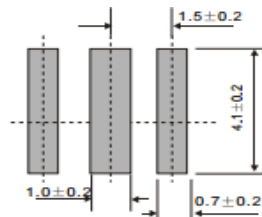
RECOMMENDED REFLOW SOLDERING STANDARD CONDITIONS



TEST CIRCUIT



RECOMMENDED LAND PATTERN (Unit: mm)



TGS part No. Guide

TGS	CR	T	V	16.0M	T	T
	1	2	3	4	5	6

- 1) CR: Ceramic Resonator 2) T: Without built-in Capacitance 3) V: Dimensions
 4) 16.0M: Freq. Range 5) T: Design Mode 6) T: Tape/Reel (Package)