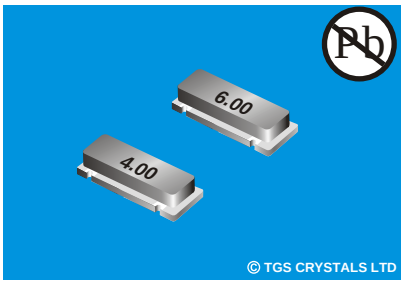
FEATURES

- Low Cost
- SMD Type For 7.4X3.4X2.0mm
- Low Frequency Range
- Lead Free available

APPLICATIONS

- Consumer Electronics
- Communications

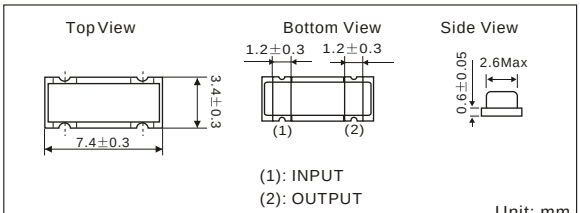


SPECIFICATION *

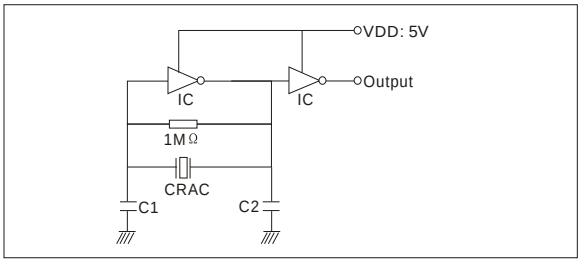
Parameters	Product	Option Code
	ZTA	CRA
Dimensions: 7.4X3.4X2.0mm	△	C
Frequency Range: 2.000~8.00MHz	△	Specify
Frequency Accuracy : ±0.5%	▲	
Temp. Stability At -20℃~80℃: ±0.3%	▲	
Load Capacitance C1,C2: 30pF	▲	
Operating Temp. Range: -20℃~+80℃	▲	
Storage Temp. Range: -40℃~+85℃	▲	
Equivalent Series Resistance (ESR):		
100 ohm Max. 2.00 ~ 2.99MHz	▲	
50 ohm Max. 3.00 ~ 3.49MHz	▲	
30 ohm Max. 3.50 ~ 8.00MHz	▲	
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 V_{DD}: +5.0V	▲	
Applicable IC: N/A	△	
Design Mode: Thickness Shear Mode	△	G
Package: Tape/Reel	△	T
Other Values: Lead Free	△	LF

▲ Standard * Specifications Subject to Change Without Notice
△ Optional: please specify required code when inquiring or ordering

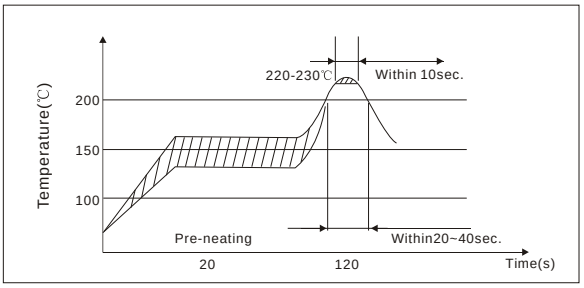
DIMENSIONS



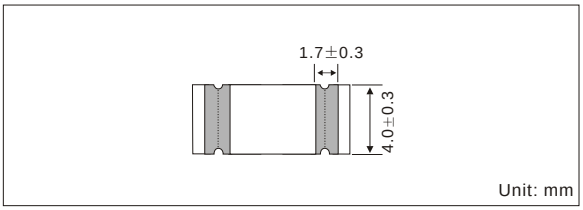
TEST CIRCUIT



RECOMMENDED REFLOW SOLDERING STANDARD CONDITIONS



RECOMMENDED LAND PATTERN



PACKAGE

- Standard package in T/R: 4000pcs/Reel, 2 Reel/inner box, 5 box/carton
  See page 91 for detail dimensions

STANDARD FREQUENCIES

Frequency in MHz

2.000000	3.640000	4.190000	6.000000
2.400000	3.680000	4.300000	6.500000
2.500000	3.800000	5.380000	
3.580000	4.000000	5.750000	

PART NUMBER GUIDE

TGS	CR	A	C	4.0M	G	T
Mark	Ceramic Resonator	Without built-in capacitance	Dimensions	Freq. Range	Design Mode	Package

e.g. Full P/N.: TGS CRAC 4.0 M G T