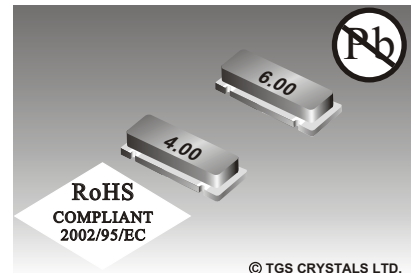


FEATURES

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

APPLICATIONS

- Consumer Electronics
- Communications



© TGS CRYSTALS LTD.

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°C~80°C:	±0.3%	▲
Load Capacitance C1,C2:	30pF	▲
Operating Temp. Range:	-20°C~+80°C	▲
Storage Temp. Range:	-40°C~+85°C	▲
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

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

PACKAGE

- Standard package in T/R: 4000pcs/Reel, 2 Reel/inner box, 5 box/carton
 See page 123 for detail dimensions

STANDARD FREQUENCIES

Frequency in MHz

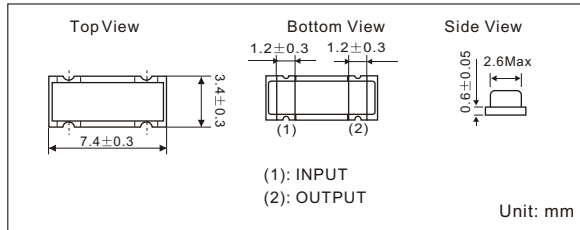
2.000000	3.640000	4.190000	6.000000
2.400000	3.680000	4.300000	6.500000
2.500000	3.800000	5.380000	
3.580000	4.000000	5.750000	

PART NUMBER GUIDE

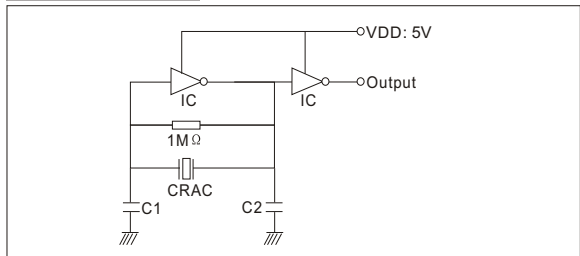
TGS	CR	A	C	4.0M	G	T
Mark	Ceramic Resonator	Without built-in capacitance	Dimensions	Freq. Range	Design Mode	Package

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

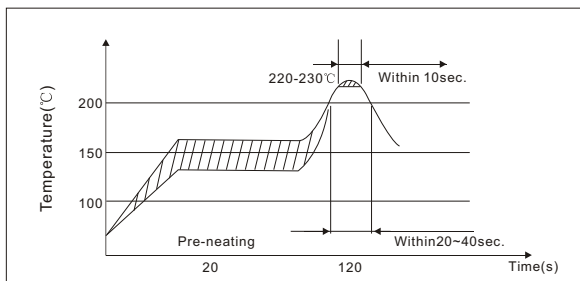
DIMENSIONS



TEST CIRCUIT



RECOMMENDED REFLOW SOLDERING STANDARD CONDITIONS



RECOMMENDED LAND PATTERN

