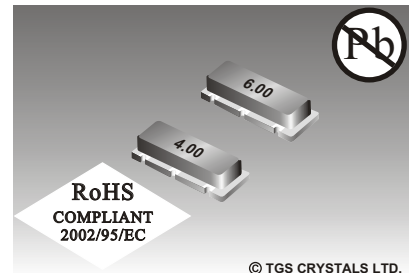


**FEATURES**

- Low Cost
- SMD Type For 7.4X3.4X2.0mm
- Low Frequency Range
- With built in capacitor

**APPLICATIONS**

- Consumer Electronics
- Communications



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**SPECIFICATION \***

Parameters	Product	Option Code
	ZTT	CRT
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:	22pF±20%	▲
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 <sub>DD</sub> :	+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**

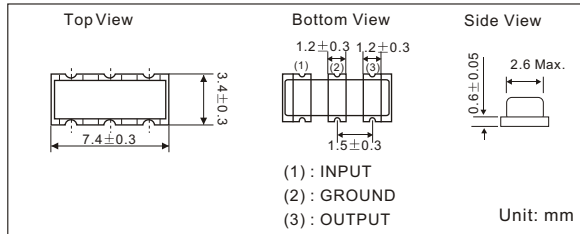
Frequency in MHz	
2.000000	3.640000
2.400000	3.680000
2.500000	3.800000
3.580000	4.000000
4.190000	5.380000
4.300000	5.750000
6.000000	6.500000

**PART NUMBER GUIDE**

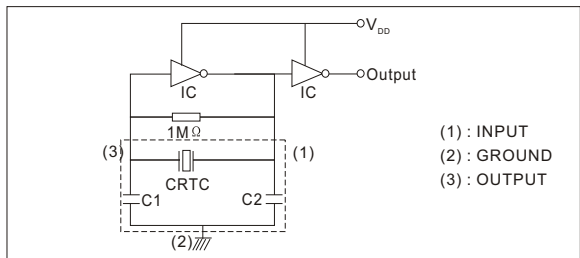
TGS	CR	T	C	4.0M	G	T
Mark	Ceramic Resonator	With built-in capacitance	Dimensions	Freq. Range	Design Mode	Package

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

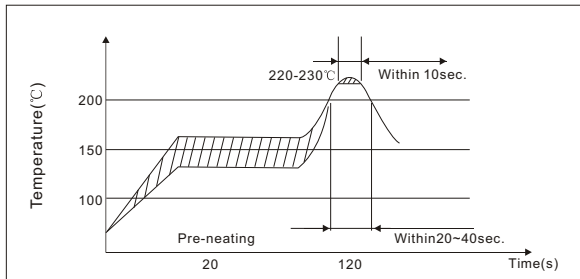
**DIMENSIONS**



**TEST CIRCUIT**



**RECOMMENDED REFLOW SOLDERING STANDARD CONDITIONS**



**RECOMMENDED LAND PATTERN**

