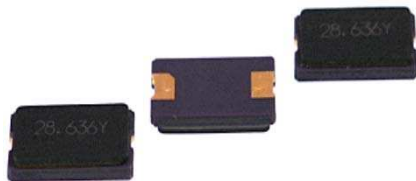


# Ceramic SMD Crystal Unit

Economical type  
Ceramic Package

Pb-free : RoHS compliance



## TFC-8045G2

### ■ Typical applications

- Cordless Telephones. Coputer Clocks. DVC. OA. AV. Etc.

### ■ Features

- 6.0 to 60 MHz.
- Economical type Grass sealed unit.
- Package : Ceramic lid + Ceramic package.
- 8.0×4.5×1.6mm

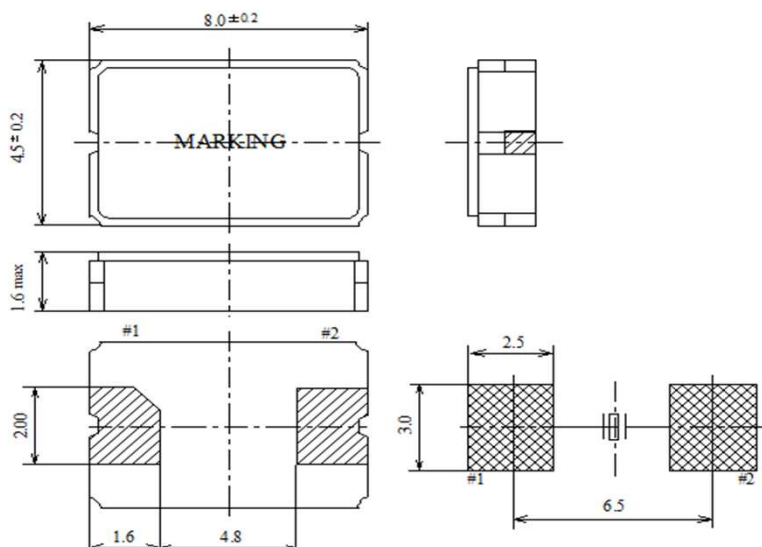
## ■ Specifications

Model	TFC - 8045G2	
Frequency Range ( Fr )	6.000 to 50.000 MHz 30.000 to 60.000 MHz	Fundamental 3rd overtone
Frequency Tolerance (max) ( dF/F )	±30.0ppm to ±50.0ppm	at 25±3° C
Frequency Temperature Stability (max)	±30.0ppm to ±100.0ppm (-10 to +70° C) ±50.0ppm to ±100.0ppm (-40 to +85° C)	
Operating Temperature Range	-40 to +85° C	
Storage Temperature Range	-40 to +90° C	
Equivalent Series Resistance (max) ( Rr )	See below table	
Load Capacitance (typical) ( CL )	8.0pF to Series Resonance	
Parallel Capacitance (max) ( Co )	7.0pF max.	
Drive Level (typical) ( DL )	10.0µW to 500µW	

## ■ Environmental Characteristics

Description	Specification
Aging (at 25° C)	±3.0 ppm max / Year (at 25° C)
Fall Shock	Test : 3 time free drop onto concrete board from 150cm high Result: ±3.0 ppm max.
Vibration Shock	Test : Freq. 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis Result: ±3.0 ppm max.
Solderability	Test : Immersed into solder bath at 235±° C for 3 sec. Result: More than 95%
Humidity	Test : 90 to 95%RH at 60±3° C±500 hours Result: ±1.0 ppm max.
Reflow Heat	Test : 2 times of IR reflow soldering in accordance with reflow temperature profile as per the document No.:TR-0531 Result: ±5.0 ppm max.

## ■ Outline Drawing & Suggested Pad



## ■ Equivalent Series Resistance

Freq. Range	Rr (max)	Mode
7.0 to 15.9MHz	70 Ω	Fundamental
16.0 to 50.0MHz	50 Ω	
30.0 to 70.0MHz	70 Ω	3rd overtone