

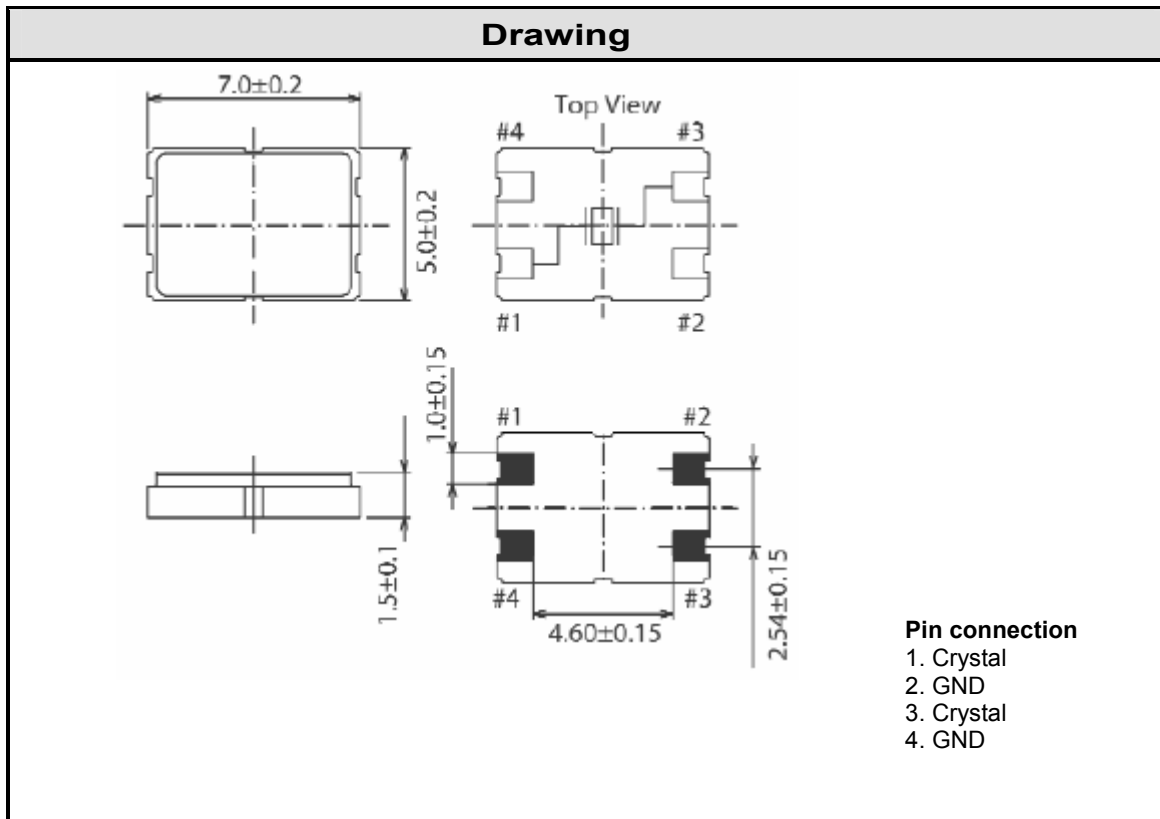
- CERAMIC SMD PACKAGE, SEAM SEALED, RoHS COMPLIANT DESIGN
- APPLICATION: BLUETOOTH, MP3, PDA, USB, WIRELESS LAN, CELLULAR



### Specification

Parameter	Characteristic
Frequency Range	8.0MHz ~ 100.0MHz
Oscillation Mode	Fundamental / Third overtone
Holder type	CX7050
Frequency Tolerance ( @ 25°C )	(See Table 5)
Frequency Stability ( Ref. @ 25°C )	(See Table 6)
Equivalent Series Resistance (C.I)	80 Ω max. (See Table 8)
Operating Temperature Range	-10 ~ +70°C standard / -40 ~ +85°C available
Storage Temperature Range	-40 ~ +90°C
Shunt Capacitance(Co)	5pF max
Load Capacitance(CL)	18pF standard (See Table 3)
Drive Level	100μW max
Aging(at 25°C)	±5ppm / year max

### Drawing



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### Ordering Guide

Typical P/N : CX7050 - 8M - 20 - 1 10 15 Q - 60 - TR

1            2            3            4            5            6            7            8            9

**1. Package** CX7050 = 7.0x5.0x1.5mm

(7.0x5.0mm Ceramic SMD Crystal Unit)

**2. Frequency range** : 8 to 100MHz

8 to 50MHz : Fundamental

30 to 100MHz : Third Overtone

**3. Load capacitance**

S : Series

10 : 10pF

18 : 18pF

20 : 20pF

30 : 30pF

**4. Oscillation Mode**

1 : Fundamental

3 : 3<sup>rd</sup> Overtone

**5. Tolerance Options (Room Temperature)**

50 : +/- 50ppm

30 : +/- 30ppm

15 : +/- 15ppm

10 : +/- 10ppm

**6. Stability Options (Temperature Range)**

50 : +/- 50ppm

30 : +/- 30ppm

15 : +/- 15ppm

10 : +/- 10ppm

**7. Operating temperature range**

P : 0~60°C

Q : -10~70°C

R : -30~75°C

S : -40~85°C

\* : The others

**8. Equivalent Series Resistance (C.I)**

8MHz ≤ F < 10MHz : 60 ohms max

10MHz ≤ F < 12MHz : 50 ohms max

12MHz ≤ F < 15MHz : 40 ohms max

15MHz ≤ F ≤ 50MHz : 30 ohms max

30MHz ≤ F ≤ 100MHz (3O/T) : 80 ohms max

**9. Packing**

TR : Tape and Reel

B : Bulk