

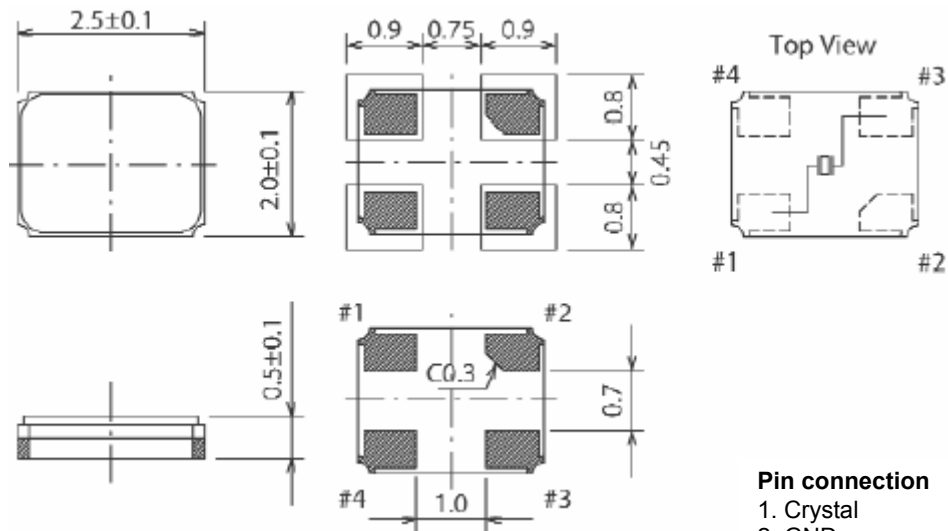
- CERAMIC SMD PACKAGE, VACUUM SEAM SEALED, RoHS COMPLIANT DESIGN
- APPLICATION: BLUETOOTH, MP3, PDA, USB, WIRELESS LAN, CELLULAR



Specification

Parameter	Characteristic
Frequency Range	16.000MHz ~ 32.000MHz
Oscillation Mode	Fundamental
Holder type	CX2520
Frequency Tolerance (@ 25℃)	(See Table 5)
Frequency Stability (Ref. @ 25℃)	(See Table 6)
Equivalent Series Resistance (C.I)	100 Ω max. (See Table 8)
Operating Temperature Range	-10 ~ +70℃ standard / -40 ~ +85℃ available
Storage Temperature Range	-40 ~ +90℃
Shunt Capacitance(Co)	5pF max
Load Capacitance(CL)	18pF standard (See Table 3)
Drive Level	100μW max
Aging(at 25℃)	±5ppm / year max

Drawing



Pin connection

1. Crystal
2. GND
3. Crystal
4. GND

Ordering Guide

Typical P/N : CX2520 - 16M - 20 - 1 10 15 Q - 100 - TR

1 2 3 4 5 6 7 8 9

1. Package CX2520 = 2.5x2.0x0.5mm

(2.5x2.0mm Ceramic SMD Crystal Unit)

2. Frequency range : 16 to 32MHz

3. Load capacitance

S : Series

10 : 10pF

18 : 18pF

20 : 20pF

30 : 30pF

4. Oscillation Mode

1 : Fundamental

3 : 3rd 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℃

Q : -10~70℃

R : -30~75℃

S : -40~85℃

* : The others

8. Equivalent Series Resistance (C.I)

16MHz ≤ F < 26MHz : 100 ohms max

26MHz ≤ F ≤ 32MHz : 80 ohms max

9. Packing

TR : Tape and Reel

B : Bulk