

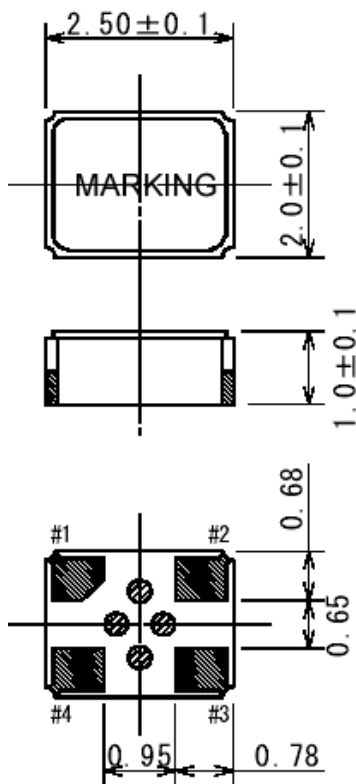
Features

- HCMOS/TTL
- Ceramic SMD Package, Vacuum Seam sealed, 2.0x2.5x1.0mm
- 2.5V / 3.3V Operation
- RoHS Compliant

Specification

Parameter	Characteristic
Frequency Range	4.000MHz ~ 50.0000MHz
Frequency Stability	+/- 50ppm~100ppm max Inclusive of Operating Temperature
Operating Temperature Range	0 ~ +70°C std. (See Table 5)
Storage Temperature Range	-55 ~ +100°C
Input Voltage	2.5Vdc +/- 5% / 3.3Vdc +/- 5%
Input Current	24mA max (See Table A)
Output 0 Level (Vol)	10%Vdc max
Output 1 Level (Voh)	90%Vdc min
Symmetry (Duty Cycle)	40/60% @ 1/2Vdc std. (See Table 6)
Rise & Fall Time	10nS max (See Table B)
Start Up Time	10mS max
Output waveform vs. Load	HCMOS-TTL / 15pF or 10TTL
Aging(at 25°C)	+/- 5ppm / year max

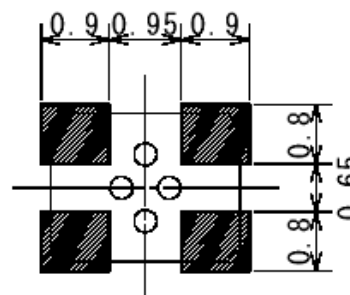
Drawing



Pin Connection

1. E/D or N.C
2. Ground
3. Output
4. Vcc

Example of a Terminal Land Pattern





2.0x2.5mm Ceramic SMD Oscillator

Model No. C225XH

Ordering Guide

Typical P/N : C225XH - 40M - 3 - 50 B S1 T -TR

1 2 3 4 5 6 7 8

1. Package C225XH = 2.0x2.5x1.0mm

(2.0x2.5mm Ceramic SMD oscillator, HCMOS/TTL)

2. Frequency range : 4 to 50MHz

3. Input Voltage : 2 = 2.5V / 3 = 3.3V

4. Frequency Stability

00 : +/- 100ppm

50 : +/- 50ppm

5. Operating Temperature Range

A : 0~70°C

B : -20~70°C

C : -40~85°C

D : -10~70°C

* : The others

6. Symmetry (Duty Cycle)

S1 : 45/55% at 1/2Vdc

S2 : 40/60% at 1/2Vdc

7. Pin#1 Connection

T : Tri-state

Blank : No connection

8. Packing

TR : Tape and Reel

BU : Bulk

TU : Tube

A. Input Current

- . 2.5V

4MHz ≤ F ≤ 20MHz : 5mA max

21MHz < F ≤ 40MHz : 9mA max

41MHz < F ≤ 50MHz : 11mA max

- . 3.3V

4MHz ≤ F ≤ 20MHz : 10mA max

21MHz < F ≤ 40MHz : 20mA max

41MHz < F ≤ 50MHz : 25mA max

B. Rise / Fall Time

4MHz ≤ F ≤ 30MHz : 10nS max

30MHz < F ≤ 50MHz : 6nS max