

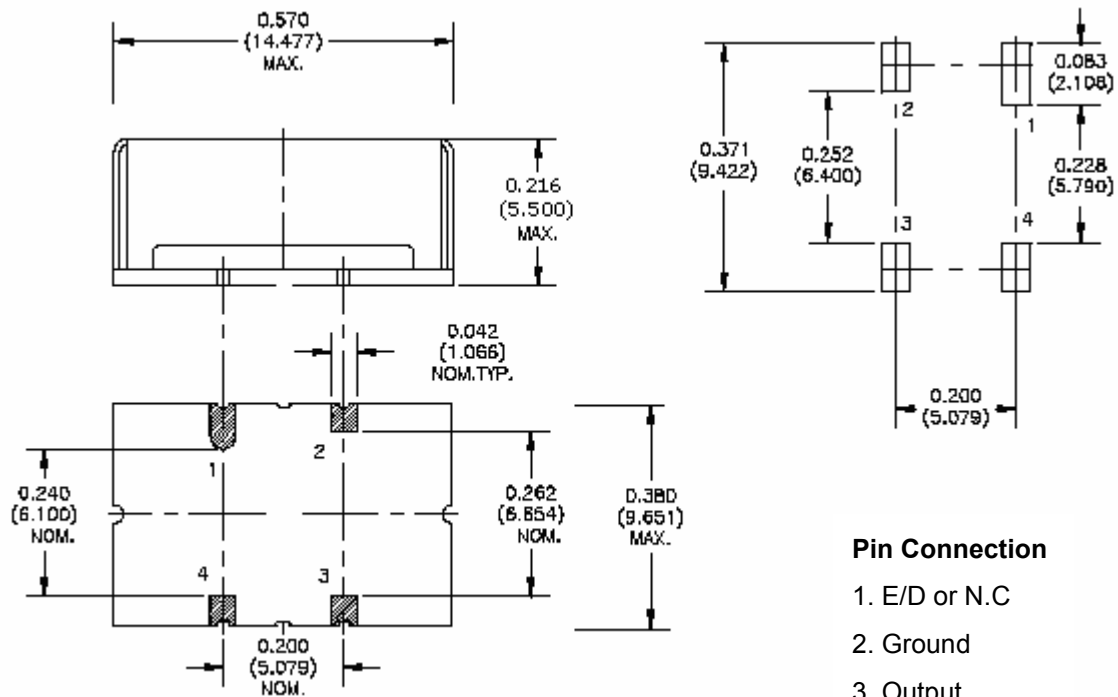
### Features

- HCMOS/TTL, Ultra Low Jitter and Phase Noise
- PCB type 4pads, Sealed crystal built in, 14x9.8x5.5mm
- 3.3V / 5.0V Operation
- RoHS Compliant

### Specification

Parameter	Characteristic
Frequency Range	32KHz ~ 622.0800MHz
Frequency Stability	+/- 100ppm std. (See Table 4) Inclusive of Operating Temperature
Operating Temperature Range	0 ~ +70°C std. (See Table 5)
Storage Temperature Range	-55 ~ +125°C
Input Voltage	3.3Vdc +/- 10% std. (See Table 3)
Input Current	85mA max (See Table A)
Output 0 Level (Vol)	10%Vdc max(HCMOS), 0.4Vdc max(TTL)
Output 1 Level (Voh)	90%Vdc min(HCMOS), 2.4Vdc min(TTL)
Symmetry (Duty Cycle)	40/60%@1/2Vdc std. (See Table 6)
Rise & Fall Time	10nS max
Start Up Time	10mS max
Output waveform vs. Load	HCMOS-TTL / 15pF or 10TTL
Aging(at 25°C)	+/- 3ppm / year max

### Drawing



### Pin Connection

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

### Ordering Guide

Typical P/N : F4XH - 54M - 3 - 25 C S1 T - TR

1      2      3      4      5      6      7      8

**1. Package** F4XH = 14x9.8x5.5mm

(FR4, PCB type 4pads Oscillator, HCMOS/TTL)

**2. Frequency range** : 32KHz to 622.08MHz

**3. Input Voltage** :

3 : 3.3V

5 : 5.0V

**4. Frequency Stability**

00 : +/- 100ppm

50 : +/- 50ppm

25 : +/- 25ppm

**5. Operating Temperature Range**

A : 0~70℃

B : -20~70℃

C : -40~85℃

D : -10~70℃

\* : 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**

3.3V : 10mA ~ 45mA max

5.0V : 15mA ~ 85mA max