# Ceramic 4J-Lead SMD Oscillator
## ■ Model No. C4JXH

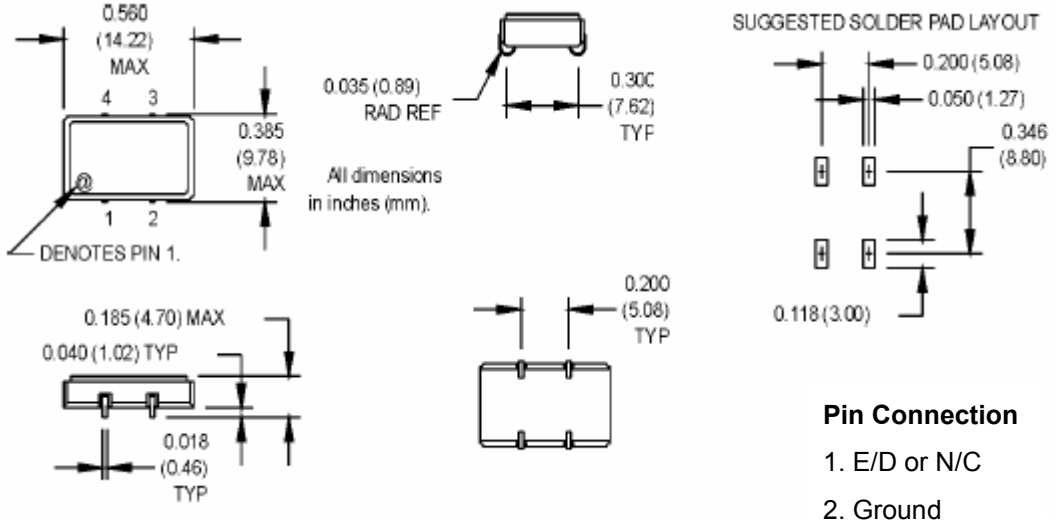
### Features

- HCMOS/TTL, Extended Temperature available
- Ceramic 4 J-Lead Package, Seam sealed, 14x9.8x4.7mm
- 3.3V / 5.0V Operation
-.RoHS Compliant

### Specification

| Parameter | Characteristic |
|---|---|
| Frequency Range | 1.000MHz ~ 167.0000MHz |
| Frequency Stability | +/- 100 ppm std. (See Table 4) |
| | Inclusive of operating temperature |
| Operating Temperature Range | 0 ~ 70℃ std. (See Table 5) |
| Storage Temperature Range | -55 ~ +125℃ |
| Input Voltage | 3.3Vdc +/- 5% std. (See Table 3) |
| Input Current | 65mA 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 | +/- 3 ppm max / year |
| Operating Temperature Range | 0 ~ 70℃ std. (-40 ~ 85℃ Available) |
| Mechanical Shock | Per MIL-STD-202, Method 213, Cond. E |
| Thermal Shock | Per MIL-STD-883, Method 1011, Cond. A |
| Vibration | Per MIL-STD-883, Method 2007, Cond. A |
| Soldering Conditions | 260℃ for 10sec. max.: 230℃ for 90sec max. |
| Hermetic Seal | Leak rate less than 5x10-8 atm.cc/s of Helium |

### Drawing




**Pin Connection**

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

Typical P/N : C4JXH - 125M - 3 - 50 B S1 T -TR
1 2 3 4 5 6 7 8

**1. Package** C4JXH = 14x9.8x4.7mm, 4pads
(Ceramic 4J-Lead SMD Oscillator, HCMOS/TTL)

**2. Frequency range :** 1 to 167MHz (3.3V)
1 to 106.250MHz (5.0V)

**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
1MHz ≤ F ≤ 27MHz : 15mA max
27MHz < F ≤ 50MHz : 25mA max
50MHz < F ≤ 80MHz : 40mA max
80MHz < F ≤ 155.52MHz : 60mA max

-. 5.0V
1MHz ≤ F ≤ 40MHz : 30mA max
40MHz < F ≤ 50MHz : 40mA max
50MHz < F ≤ 80MHz : 55mA max
80MHz < F ≤ 106.250MHz : 65mA max

**B. Rise / Fall Time**

1MHz ≤ F ≤ 40MHz : 10nS max
40MHz < F ≤ 50MHz : 8nS max
50MHz < F ≤ 80MHz : 6nS max
80MHz < F ≤ 155.52MHz : 4nS max

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