

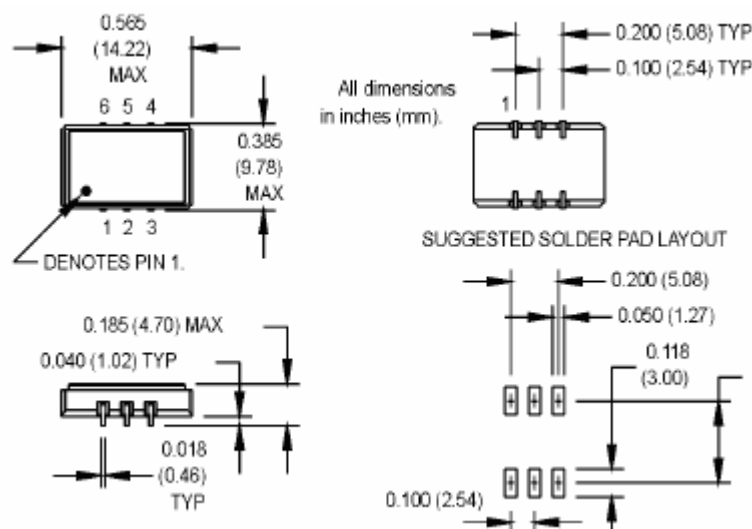
### Features

- HCMOS/TTL, Extended Temperature available
- Ceramic 6 J-Lead Package, Seam sealed, 14x9.8x4.7mm
- 3.3V / 5.0V Operation
- RoHS Compliant

### Specification

Parameter	Characteristic
Frequency Range	1.000MHz ~ 200.0000MHz
Frequency Stability	+/- 100ppm std. (See Table 4)
	Inclusive of Operating Temperature
Operating Temperature Range	0 ~ +70°C std. (See Table 6)
Storage Temperature Range	-55 ~ +125°C
Input Voltage	3.3Vdc +/- 10% std. (See Table 3)
Control Voltage	1.65V +/- 1.35V std. (See Table 3)
Pulling Range	+/- 100ppm min std. (See Table 5)
Input Current	55mA 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 7)
Rise & Fall Time	10nS max (See Table B)
Linearity	+/- 10% std. (+/- 15%, +/- 20%)
Start Up Time	10mS max
Output waveform vs. Load	HCMOS-TTL / 15pF or 10TTL
Aging(at 25°C)	+/- 5ppm / year max
Operating Temperature Range	0 ~ 70°C std. (-40 ~ 85°C 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°C for 10sec. max.: 230°C for 90sec max.
Hermetic Seal	Leak rate less than 5x10 <sup>-8</sup> atm.cc/s of Helium

### Drawing



### Pin Connection

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

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### Ordering Guide

Typical P/N : C6JVH – 16.384M - 52 - 25 E C S1 T1 - TR

1                      2                      3    4    5    6    7    8    9

- 1. Package** C6JVH = 14x9.8x4.7mm, 6pads  
(Ceramic 6J-Lead SMD VCXO, HCMOS/TTL)
- 2. Frequency range** : 1 to 80MHz (Fundamental)  
80.001 to 200MHz (Multi)

- 3. Input Voltage & Control Voltage :**
- 31 : 3.3V (Vcontrol : 1.65 +/- 1.35V)
  - 32 : 3.3V (Vcontrol : 1.65 +/- 1.50V)
  - 33 : 3.3V (Vcontrol : 1.65 +/- 1.65V)
  - 51 : 5.0V (Vcontrol : 2.50 +/- 2.00V)
  - 52 : 5.0V (Vcontrol : 2.50 +/- 2.50V)

- 4. Frequency Stability**
- 00 : +/- 100ppm
  - 50 : +/- 50ppm
  - 25 : +/- 25ppm

- 5. Pulling Range**
- C : +/- 50ppm min
  - D : +/- 80ppm min
  - E : +/- 100ppm min
  - F : +/- 130ppm min
  - \* : The others

- 6. Operating Temperature Range**
- A : 0~70℃,    B : -20~70℃,    C : -40~85℃
  - D : -10~70℃,    \* : The other

**7. Symmetry (Duty Cycle)**

- S1 : 45/55% at 1/2Vdc
- S2 : 40/60% at 1/2Vdc

**8. Pin#2 & Pin#5 Connection**

- T1 : Pin#2 E/D, Pin#5 N/C Standard.
- T2 : Pin#2 N/C, Pin#2 E/D
- T3 : Pin#2 E/D, Pin#5 E/D
- T4 : Pin#2 N/C, Pin#5 N/C

**9. Packing**

- TR : Tape and Reel
- BU : Bulk
- TU : Tube

**A. Input Current**

(unit : mA)	5.0V	3.3V
1MHz to 20MHz	20	15
20.001MHz to 40MHz	30	25
40.001MHz to 80MHz	40	35
80.001MHz to 200MHz	55	55

**B. Rise / Fall Time**

- 1MHz ≤ F ≤ 20MHz : 10nS max
- 20MHz < F ≤ 40MHz : 8nS max
- 40MHz < F ≤ 80MHz : 5nS max
- 80MHz < F ≤ 200MHz : 10nS max (Multi)