# Ceramic 6J-Lead LVPECL SMD Oscillator

## ■ Model No. C6JXP

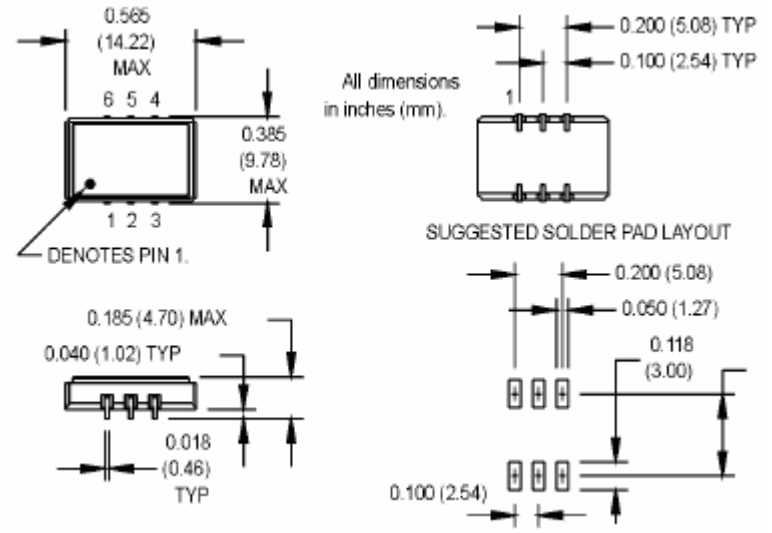
### Features

- LVPECL, Extended Temperature available
- Ceramic 6 J-Lead Package, Seam sealed, 14x9.8x4.7mm
- 2.5V / 3.3V Operation
- RoHS Compliant

### Specification

| Parameter | Characteristic |
|---|---|
| Frequency Range | 1.000MHz ~ 800.0000MHz |
| Frequency Stability | +/- 50 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. |
| Input Current | 100mA max |
| Output 0 Level (Vol) | Vcc-1.63Vdc max |
| Output 1 Level (Voh) | Vcc-1.02Vdc min |
| Symmetry (Duty Cycle) | 40/60%@Vcc-1.3Vdc std. (See Table 6) |
| Rise & Fall Time | 0.6nS typical, 1.0nS max |
| Start up time | 10mS max |
| Output Load | 50Ω to Vcc-2.0Vdc |
| Tri-state Output (Pin# 1) | High or Open : Oscillation, Low : High Impedance |
| Aging | +/- 3 ppm max / year |
| Phase Jitter (12KHz~20MHz) | 1pS RMS max (See Table A) |
| 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. N/C or E/D
3. Ground
4. Output
5. Comp. Output
6. Vcc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## Ordering Guide

Typical P/N : C6JXP - 155.52M - 3 - 50 A S1 T1 -TR
1 2 3 4 5 6 7 8

**1. Package** C6JXP = 14x9.8x4.7mm, 6pads
(Ceramic 6J-Lead LVPECL SMD Oscillator)

**2. Frequency range :** 1 to 800MHz

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

**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 Vcc - 1.3Vdc
S2 : 40/60% at Vcc - 1.3Vdc

**7. Pin#1 & Pin#2 Connection**

T1 : Pin#1 E/D, Pin#2 N/C Standard
T2 : Pin#1 N/C, Pin#2 E/D

**8. Packing**

TR : Tape and Reel
BU : Bulk
TU : Tube

**A. Phase Jitter**

1MHz ≤ F < 9.7MHz : 3pS RMS max
9.7MHz ≤ F ≤ 200MHz : 1pS RMS max
200.001MHz < F ≤ 800MHz : 3pS RMS max
(12KHz ~ 20MHz)

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