

# SMD 7050 LVPECL Crystal Oscillator

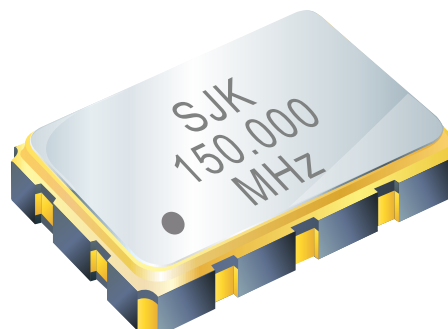


Size: 7.0×5.0×1.30 mm

7P Series SMD LVPECL Oscillator

## Features

- Fundamental /3rd overtone solution.
- 3.3V / 2.5V operation voltage.
- Package size: 7.0×5.0×1.30 mm.
- LVPECL output, output frequencies 25MHz to 200MHz.
- Excellent low phase noise and jitter.
- 3-state function available.
- Automatic mounting and reflow soldering.
- Applications: Ethernet, Server, SDH, SONET, PC, Mobile Telecommunications, etc.
- RoHS Compliant / Pb-Free.



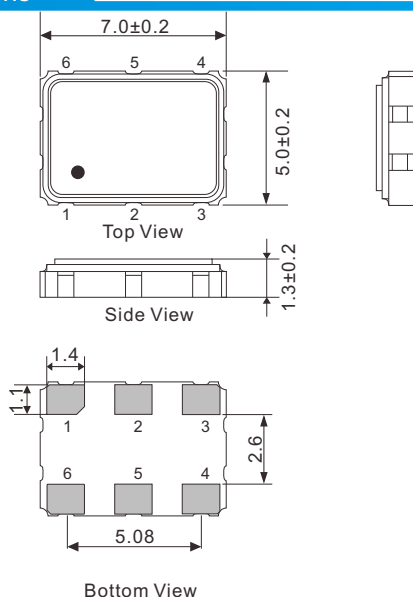
## Electrical Specifications

| Item /Type                        | 7P (SMD 7050 LVPECL Crystal Oscillator) |
|-----------------------------------|---|
| Output Type                       | LVPCEL                                  |
| Output Load                       | 50 Ω to VDD-2V                          |
| Oscillation Mode                  | Fundamental / 3rd Overtone              |
| Supply voltage                    | 2.5V, 3.3V                              |
| Frequency range                   | 25MHz~200MHz                            |
| Overall Frequency Stability*      | ±50ppm, or specify                      |
| Operating Temperature Range       | -20~+70°C, -40~+85°C, or specify        |
| Storage Temperature Range         | -55~+125°C                              |
| Voltage Vol (Typ.) / Voh (Typ.)   | VDD-1.62V / VDD-1.026V                  |
| Rise(Tr) / Fall(Tf) Time(20%~80%) | 1ns Max.                                |
| Supply Current                    | 80mA Max.                               |
| Symmetry                          | 45~55%                                  |
| Start-up Time                     | 10ms Max.                               |
| Phase Jitter(12KHz~20MHz)         | 1pS Max.                                |

\* Inclusive of frequency tolerance at 25°C, variation over temperature, supply voltage variation, aging and vibration.

## Dimensions

Units:mm



### PAD FUNCTION:

- 1: ENABLE CONTROL or NC
- 2: ENABLE CONTROL or NC
- 3: GND
- 4: OUT
- 5: OUTN
- 6: VDD

\* External high frequency power supply decoupling required.

