

# SMD LVPECL Crystal Oscillators

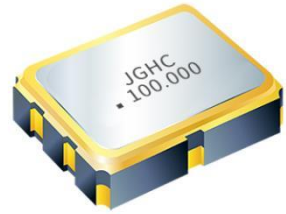
## Differential Output

### 3.2x2.5x0.95mm X3P Series



#### Features

- Fundamental solution.
- 3.3V and 2.5V operation available.
- LVPECL output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-state function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH / SONET.
- RoHS compliant / Pb Free.



#### Crystals specifications

ITEMS/TYPE	X3P
Frequency Range	25 ~ 200 MHz
Output Type	LVPECL
Oscillation Mode	Fundamental / 3rd Overtone
Output Load	50Ω
Supply Voltage (VDD)	2.5 V , 3.3 V
Total Frequency Stability	± 50 ppm , or specify
Operating Temperature Range	- 40 ~ + 85 °C, or specify
Storage Temperature Range	- 55 ~ + 125 °C
Voltage Vol ( Max.) / Voh ( Min.)	VDD - 1.62 V / VDD - 1.025 V
Rise ( Tr ) / Fall ( Tf )Time(20 %~80 %)	1nS Max.
Supply Current	80mA Max.
Symmetry	45~55 %
Start-up Time	10mS Max.
Phase Jitter (12KHz ~ 20 MHz )	1pS Max.

#### Dimensions and patterns(unit:mm)

