

# SMD LVPECL Crystal Oscillators

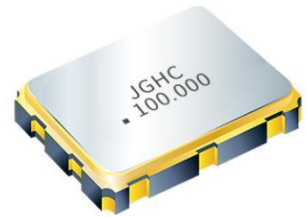
## Differential Output

### 5.0x3.2x1.2mm X5P Series



#### Features

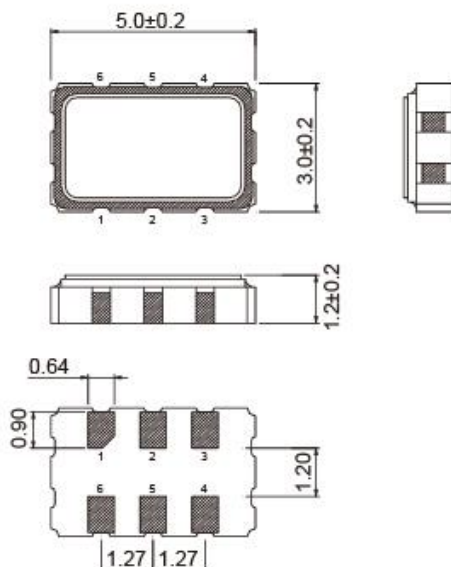
- Fundamental solution.
- 3.3V and 2.5V operation available.
- LVPECL output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-state function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH / SONET.
- RoHS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



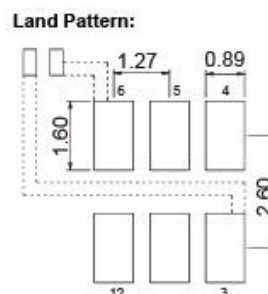
#### Crystals specifications

ITEMS/TYPE	X5P
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	±50ppm , 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 ( 12 KHz ~ 20 MHz )	1pS Max.

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



**PAD FUNCTION:**  
 1:ENABLE CONTROL or NC  
 2:ENABLE CONTROL or NC  
 3:GND  
 4:OUT  
 5:OUTN  
 6:VDD



※ Pad dimension tolerance ±0.2 mm

※ Power Supply Decoupling Capacitor is Required.

※ Pad dimension tolerance ±0.2 mm

Units:mm