

# SMD Crystal Oscillators

## Differential LVDS Output

### 3.2x2.5x0.95mm X3D Series



#### Features

- Fundamental solution.
- 3.3V and 2.5V operation available.
- LVDS 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	X3D
Frequency Range	25 ~ 200 MHz
Output Type	LVDS
Oscillation Mode	Fundamental / 3rd Overtone
Output Load	100Ω
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 ( 12 KHz ~ 20 MHz )	1pS Max.
Packing Unit	3,000pcs/Reel

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

