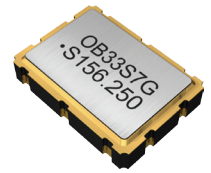


# LVDS DIFFERENTIAL OUTPUTS CRYSTAL OSCILLATOR

## OSC57B



### Applications

- SONET / SDH / Gbits / Ethernet / IEEE1394 / Fibre Channel

### Features

- Ceramic package / Dimensions (7.0×5.0×1.5)
- Low phase jitter / 0.3ps typ. / 12kHz to 20MHz offset
- LVDS differential outputs with Tri-state function
- Low Jitter

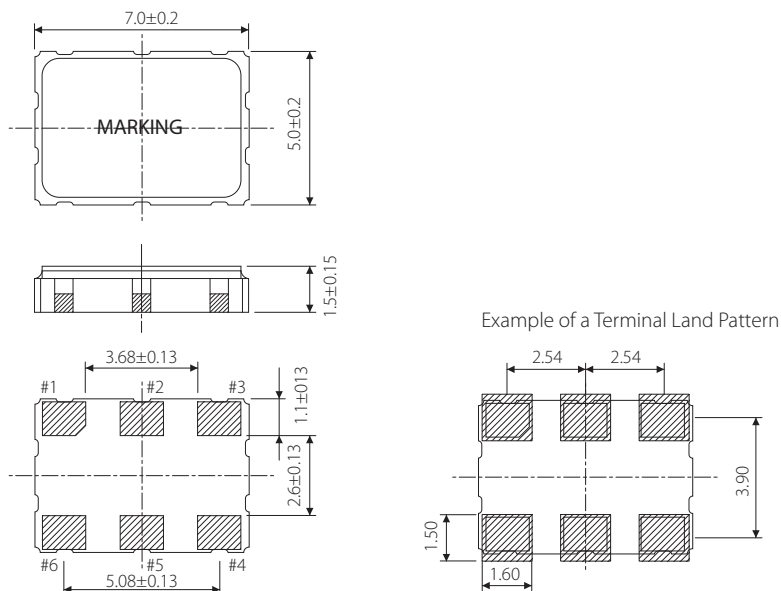
### Specifications



Model	OSC57B
Frequency range	80.000~160.000 MHz
Nominal Frequency (MHz)	100, 106.25, 108, 125, 133, 155.52, 156.25
Storage temperature range	-40~+85°C
Operating temperature range	-10~+70°C
Frequency stability	$\pm 30 \times 10^{-6}$ , $\pm 55 \times 10^{-6}$ , $\pm 100 \times 10^{-6}$
Power supply voltage (Vcc)	+2.5V, +3.3V DC $\pm 5\%$
Input voltage level	V <sub>L</sub> : 0.3Vcc max. / V <sub>H</sub> : 0.7Vcc min.
Current consumption	70mA max. (50mA typ.) / 30uA max. (Standby)
Output level	LVDS
Load	100Ω (OUT-OUTN)
Output voltage level	V <sub>OL</sub> : 0.9V min. / V <sub>OH</sub> : 1.6V max.
Differential output voltage	0.33V typ.
Offset voltage	1.25V typ.
Rise & Fall time	1ns max. / 20%~80%Output swing level
Duty cycle	45~55% at 50% output swing level
Jitter	RMS 1σ 5ps max. (3ps typ.)
Phase Jitter	RMS 1ps max. (0.3ps typ.) / 12kHz to 20MHz offset
Tri-state Function	#1: Floating or "H"→Output enable / #1: "L"→Output disable (Hi-Z)

Package quantity: 1,000pcs max./Reel.

### Outline and Dimensions [unit:mm]



Terminal	Connection
#1	Tri-state
#2	N.C.
#3	GND
#4	OUT
#5	OUTN
#6	Vdd

#### Tri-state Function

Tri-state Pin	Output
High or Floating	Active
Low	Hi-impedance