

PROGRAMMABLE CRYSTAL OSCILLATOR

YSV311PJ VCXO



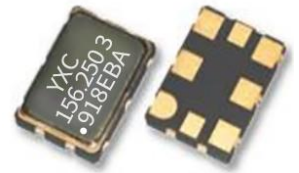
Applications

- 10 GB Ethernet,
SONET, SATA, SAS,
Fibre Channel

Features

- Freq range:15MHz-250MHz.
- Output CMOS.

- Package Size: 5.0*3.2 7.0*5.0mm.
- Ultra-low RMS phase jitter.



Specifications

Item/Type	SMD VCXO	CMOS
Output Frequency Range		15MHZ~250MHZ
Supply Voltage		1.8V, 2.5V, 3.3V
Total Stability		±25ppm, ±50ppm, ±100ppm or specify
Absolute Pull Range		±100ppm (min), ± 200 ppm (available)
Operating Temperature Range		-40~+85℃,or specify
Storage Temperature Range		-55~+150℃
Input Impedance		5 Mohms (min)
Current Consumption(VDD = + 3.3 V)		50MHZ: 70 mA (typ.), 250MHZ: 80 mA (typ.),
Output Load		15pF(max)
Duty Cycle		45~55%
Rise Time/Fall Time(10% to 90% Waveform)		5.0 nsec (max.)
Start-up time		5 msec. (typ.) ; 10 msec. (max.)
Aging		± 3 ppm (max.) for first year ; ± 2 ppm (max.) per year thereafter
RMS Jitter [12 kHz ~ 20 MHz]		156.250 MHz : 159 fsec (typ.) ; 491.520 MHz : 155 fsec (typ.) ; 644.530 MHz : 151 fsec (typ.) ; 2,000 MHz : 163 fsec (typ.)

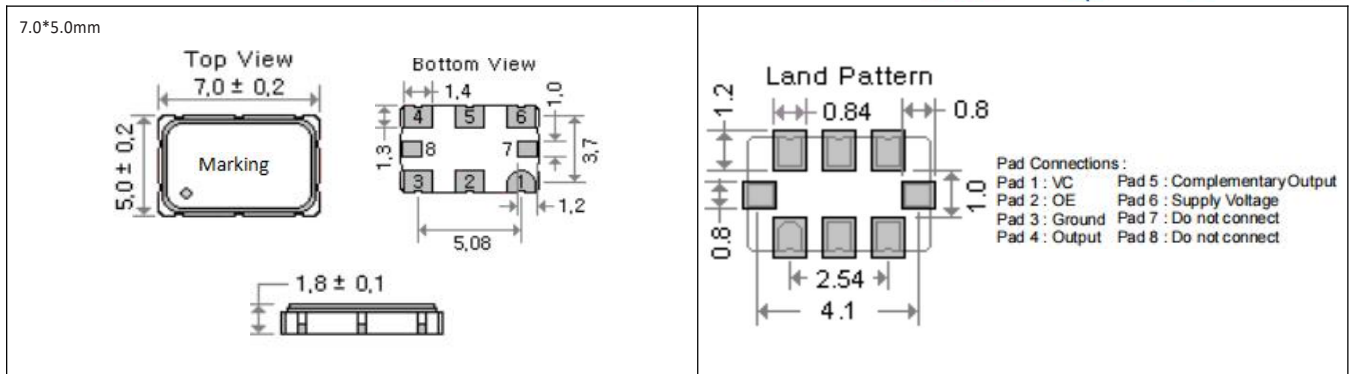
Dimensions and Patterns [unit:mm]

Package Size – Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)								
5.0*3.2mm Top View: 5.0 ± 0.2, 3.2 ± 0.2, Marking Bottom View: 0.6, 0.7, 1.0, 1.2, 2.54, 4.1 Side View: 1.4 ± 0.1	Land Pattern: 1.2, 0.84, 0.8, 1.0, 2.54, 4.1 Pad Connections: <table><tr><td>Pad 1: VC</td><td>Pad 5: Complementary Output</td></tr><tr><td>Pad 2: OE</td><td>Pad 6: Supply Voltage</td></tr><tr><td>Pad 3: Ground</td><td>Pad 7: Do not connect</td></tr><tr><td>Pad 4: Output</td><td>Pad 8: Do not connect</td></tr></table>	Pad 1: VC	Pad 5: Complementary Output	Pad 2: OE	Pad 6: Supply Voltage	Pad 3: Ground	Pad 7: Do not connect	Pad 4: Output	Pad 8: Do not connect
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Test Circuit

