

Programmable Crystal Oscillator YSO160PR



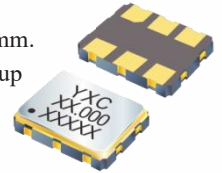
Applications

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

Features

- Freq. Range: 10MHz-250MHz.
- Ultra Small SMD seam sealed crystal oscillator units.

- Package Size: 3.2*2.5, 5.0*3.2, 7.0*5.0mm.
- High precision characteristic covering up to wide frequency range.



Specifications

| Item / Type | SMD VCXO | CMOS |
|--|----------|-----------------------------------|
| Output Frequency Range | | 10MHz to 250MHz, or specify |
| Supply Voltage | | 2.5V or 3.3V |
| Total Stability | | ±30ppm, ±50ppm or specify |
| Operating Temperature Range | | -40~+85°C, or specify |
| Storage Temperature Range | | -55~+125°C |
| Input Resistance | | 1Mohms Typ |
| Current Consumption | | 40mA Max |
| Output Load | | 15pF(max) |
| Voltage Vol (Max.) / Vol (Min.) | | VOH = 90%Vdd/VOL = 10%Vdd |
| Duty Cycle | | 45~55% |
| Input Voltage | | VIH=70% Vcc Min, VIL=30% Vdd Max. |
| Rise Time / Fall Time (20% to 80% Waveform) | | 4.0nsec (max.) |
| Start-up Time | | 10msec. (max.) |
| Aging | | ±3 ppm / year Max. |
| RMS Jitter [12 kHz ~ 20 MHz] | | 1.0pS Typ. |

Pin Dimension

| Pin | #1 | #2 | #3 | #4 | #5 | #6 |
|----------|----|----|-----|-----|----|-----|
| FUNCTION | OE | NC | GND | OUT | NC | VDD |

Top View

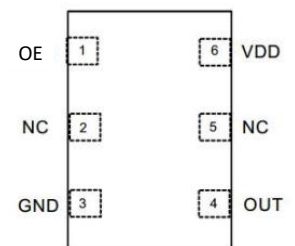


Figure 1. Pin Assignments

Programmable Crystal Oscillator YSO160PR



Dimensions and Recommended land pattern

| Package Size – Dimensions (Unit: mm) | Recommended Land Pattern (Unit: mm) |
|---|-------------------------------------|
| <p>3.2*2.5mm</p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p> | |
| <p>5.0*3.2mm</p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p> | |
| <p>7.0*5.0mm</p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p> | |

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