

# CRYSTAL OSCILLATOR

## OSC8A Low Phase Jitter



### Applications

- Data centers / Gbits / Ethernet
- Optical modules/ Internet of Things
- 5G network infrastructure/ Servers

### Features

- Small ceramic package / Dimensions (3.2\* 2.5 \*0.95)
- Low Phase Jitter  
Jitter 60 fs max @12KHz to 20MHz

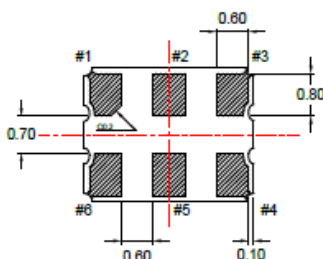
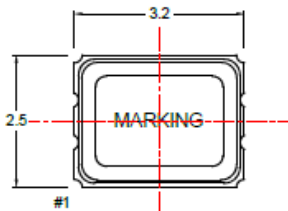
### Specifications



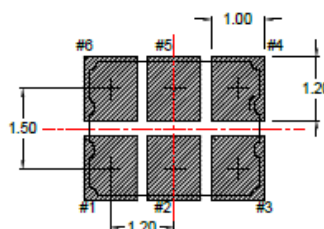
| Model                       | OSC8A                                  |
|-----------------------------|--|
| Nominal frequency           | 100.0~160.0MHz                         |
| Storage temperature range   | -55 ~ +125 °C                          |
| Operating temperature range | -40 ~ +85 °C                           |
| Frequency stability         | ±50ppm / ±100ppm                       |
| Power supply voltage        | 1.8V, 2.5V, 3.3V DC±10%                |
| Current consumption         | 25 mA max.                             |
| Output level                | LVDS                                   |
| Output Load                 | 100 Ω (OUT-OUTN)                       |
| Output voltage level        | VOL: 1.6 V max. / VOH: 0.9 V min.      |
| Rise & Fall time            | 1.0ns max. @20%Vcc ~ 80%Vcc            |
| Duty cycle                  | 45%~55% at 50%Vcc                      |
| Start-up time               | 5ms @90%VDD                            |
| Phase Jitter                | 60 fs max. @12KHz to 20MHz (156.25MHz) |
| Jitter                      | 5 ps max. @RMS Jitter                  |

Package quantity : 3,000pcs max./Reel

### Outline and Dimensions [unit: mm]



Land Pattern(REFERENCE)



| Terminal | Connection       |
|----------|------------------|
| #1       | Tri-state or N.C |
| #2       | NC               |
| #3       | GND              |
| #4       | OUT              |
| #5       | OUTN             |
| #6       | Vcc              |

| Tri-state Function |              |
|--------------------|--------------|
| Tri-state pin      | Output       |
| High or Floating   | Active       |
| Low                | HI-Impedance |