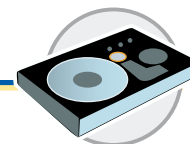


**1.8V CMOS Low-Jitter 62.5 MHz SAS2/SATA3 XO**
**FDSAS6062**


5.0 x 3.2mm Ceramic SMD

**ASSP XO™ for Storage**

**Product Features**

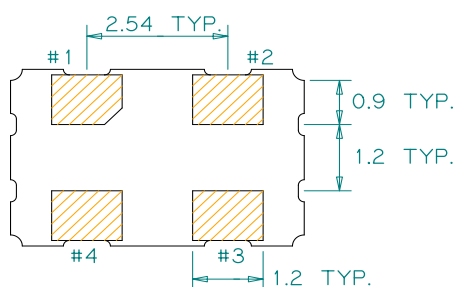
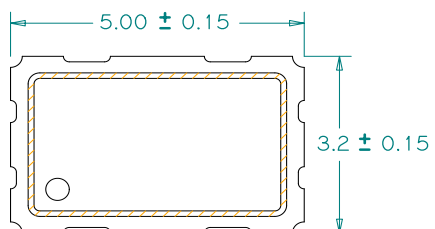
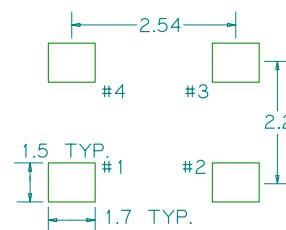
- Very low Pk to Pk jitter - 30ps Max
- Low output current - 10mA Max
- Low power standby mode
- RoHS Compliant

**Product Description**

This is an enhanced high frequency 3.3V, 62.5MHz crystal clock oscillator with superb jitter and low operating current for Serial Attached SCSI Hard Disk Drive applications.

**Applications**

- Serial Attached SCSI 6G Hard Disk Drive

**Package:**

**Recommended Land Pattern:**

**Pin Functions:**

| Pin | Function        |
|-----|-----------------|
| 1   | OE Function     |
| 2   | Ground          |
| 3   | Clock Output    |
| 4   | V <sub>DD</sub> |

\*Extended high frequency power decoupling is recommended (see test circuit for minimum recommendation). To ensure optimal performance, do not route RF traces beneath the package.

**Part Ordering Information:**
**FDSAS6062**



### Electrical Performance

| Parameter                       | Min.                | Typ. | Max.                | Units | Notes                        |
|---------------------------------|---------------------|------|---------------------|-------|------------------------------|
| Output Frequency                |                     | 62.5 |                     | MHz   |                              |
| Supply Voltage V <sub>DD</sub>  | 1.71                | 1.8  | 1.89                | V     |                              |
| Supply Current, Output Enabled  |                     |      | 10                  | mA    |                              |
| Supply Current, Output Disabled |                     |      | 100                 | μA    |                              |
| Frequency Stability             |                     |      | ±50                 | ppm   | See Note 1 below             |
| Operating Temperature Range     | -20                 |      | +70                 | °C    |                              |
| Output Logic 0, V <sub>OL</sub> |                     |      | 10% V <sub>DD</sub> | V     |                              |
| Output Logic 1, V <sub>OH</sub> | 90% V <sub>DD</sub> |      |                     | V     |                              |
| Output Load                     |                     |      | 15                  | pF    |                              |
| Duty Cycle                      | 45                  |      | 55                  | %     | Measured 50% V <sub>DD</sub> |
| Rise and Fall Time              |                     |      | 1                   | ns    | Measured 20/80% of waveform  |
| Jitter, pk-pk                   |                     |      | 30                  | ps    | 100.000 random periods       |

#### Notes:

1. Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25°C), aging (1 year at 25°C average effective ambient temperature), shock and vibration.
2. For specifications other than those listed, please contact sales.

### Output Enable / Disable Function

| Parameter                                                 | Min.                | Typ. | Max.                | Units | Notes          |
|-----------------------------------------------------------|---------------------|------|---------------------|-------|----------------|
| Input Voltage (pin 1), Output Enable                      | 0.7 V <sub>DD</sub> |      |                     | V     | or open        |
| Input Voltage (pin 1), Output Disable (low power standby) |                     |      | 0.3 V <sub>DD</sub> | V     | Output is Hi-Z |
| Internal Pullup Resistance                                | 30                  |      |                     | kΩ    |                |
| Output Disable Delay                                      |                     |      | 200                 | ns    |                |
| Output Enable Delay                                       |                     |      | 2                   | ms    |                |

### Absolute Maximum Ratings

| Parameter           | Min. | Typ. | Max. | Units | Notes |
|---------------------|------|------|------|-------|-------|
| Storage Temperature | -55  |      | +125 | °C    |       |

For the latest product information visit: <http://www.pericom.com/products/timing/oscillators/FDSAS6062/>

For test circuit go to: [http://www.pericom.com/pdf/sre/tc\\_hcm0s.pdf](http://www.pericom.com/pdf/sre/tc_hcm0s.pdf)

For soldering reflow profile and reliability test ratings go to: <http://www.pericom.com/pdf/sre/reflow.pdf>

For tape and reel information go to: [http://www.pericom.com/pdf/sre/tr\\_5032\\_xo.pdf](http://www.pericom.com/pdf/sre/tr_5032_xo.pdf)

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