

XK33L161L322L644I

XK Crystal Oscillator (ProXO II)

## 1. Pin Information

### 1.1 Pin Assignments

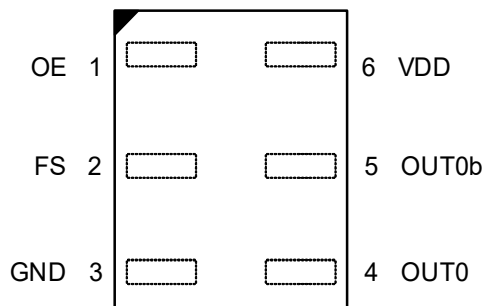


Figure 1. 3.2 × 2.5 mm Package Option– Top View

### 1.2 Pin Descriptions

| Pin Number | Pin Name | Description  |
|------------|----------|--|
| 1          | OE       | Output Enable (OE) (0 = disabled; pulled High internally)<br><i>Note:</i> The OE function stops the outputs in a differential state, it does not tri-state the outputs or power down the internal circuitry. |
| 2          | FS       | Frequency Select (FS). The pin is a 3-state (High, Mid (Float), Low) pin that selects one of the three factory programmed frequencies and output types via ordering option.                                  |
| 3          | GND      | Connect to ground  |
| 4          | OUT0     | True clock output.   |
| 5          | OUT0b    | Complementary clock output.  |
| 6          | VDD      | Power supply voltage.  |

### 1.3 FSEL Configuration

| Configuration | FSEL        | OE Pin | OE Logic    | Frequency     | Output Type | Voltage |
|---------------|-------------|--------|-------------|---------------|-------------|---------|
| 1             | Low         | Pin 1  | Active High | 161.132813MHz | LVDS        | 3.3V    |
| 2             | Mid (Float) | Pin 1  | Active High | 322.265625MHz | LVDS        | 3.3V    |
| 3             | High        | Pin 1  | Active High | 644.53125MHz  | LVDS        | 3.3V    |

## 2. Ordering Information

The Minimum Order Quantity (MOQ) for tape and reel packing is 2500 pieces. Orders less than 2500 pieces, or the portion of orders that are not multiples of 2500 pieces will be packed on cut tape. For example, a 3500 pieces order will be packed as 2500 pieces on tape and reel and 1000 pieces on cut tape.

|                              | Family | Package  | Voltage                                   | Config. 1 <sup>[1]</sup><br>(FS = Low) | Config. 2 <sup>[1]</sup><br>(FS = Floating) | Config. 3 <sup>[1]</sup><br>(FS = High) | Temperature Range |
|------------------------------|--------|--|---|--|---|---|-------------------|
| Ordering Code <sup>[2]</sup> | XK     | 0: 1.8 × 1.4 mm<br>1: 2.0 × 1.6 mm<br>2: 2.5 × 2.0 mm<br>3: 3.2 × 2.5 mm | 1: 1.8V ±5%<br>2: 2.5V ±5%<br>3: 3.3V ±5% | Xff                                    | Xff   | Xff                                     | I: -40 to +85°C   |
| Part Number <sup>[3]</sup>   | XK     | 3  | 3   | L161                                   | L322  | L644                                    | I                 |

1. Refer to [FSEL Configuration](#) table for frequencies and output types.
2. See the Ordering Information section in the [XK datasheet](#) for a full set of codes and details on output types and configurations, frequency performance groups, and frequencies.
3. The ordering code from this table denotes part number XK33L161L322L644I.

## 3. Revision History

| Revision | Date        | Description      |
|----------|-------------|------------------|
| 1.00     | Nov 7, 2023 | Initial release. |

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