



**THE DATASHEET OF
OXETGLJANF-16.000000**



OX Type

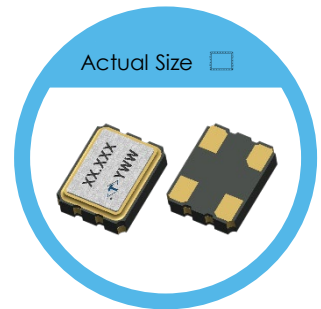
3.2 x 2.5 mm SMD Crystal Oscillator

FEATURES

- Conforms to AEC-Q200
- Typical 3.2 x 2.5 x 0.95 mm Ceramic SMD Package
- Tight Symmetry (45 to 55%) Available
- Operation Voltage: 1.8V, 2.5V, 3.3V
- Tri-State Enable/Disable

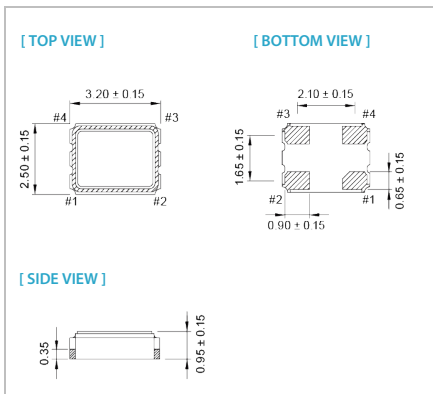
TYPICAL APPLICATION

- WLAN/WiMax
- Mobile Phone
- DSC, Set-top Box, HDTV

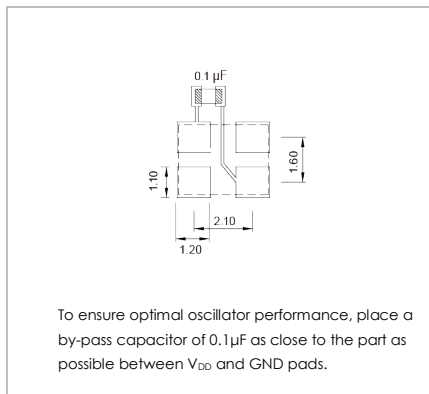


RoHS Compliant

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



PIN FUNCTION (mm)

| PIN# | FUNCTION |
|------|-----------------|
| 1 | Tri-State |
| 2 | GND |
| 3 | Output |
| 4 | V _{DD} |

ELECTRICAL SPECIFICATION

| Parameter | 3.3V | | 2.5V | | 1.8V | | Unit | Test Condition | |
|---|-----------------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|------|---|--|
| | Min. | Max. | Min. | Max. | Min. | Max. | | | |
| Supply Voltage Variation (V _{DD}) | V _{DD} - 5% | V _{DD} + 5% | V _{DD} - 5% | V _{DD} + 5% | V _{DD} - 5% | V _{DD} + 5% | V | | |
| Frequency Range | 1.25 | 125 | 1.25 | 125 | 1.25 | 125 | MHz | | |
| Standard Frequency | 24, 26, 30, 40 | | | | | | MHz | Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position. | |
| Supply Current | At 15pF Load | | | | | | | | |
| | No Load Condition | 1.25 MHz ≤ Fo < 10 MHz | 15 | 10 | 7 | mA | | | |
| | | 10 MHz ≤ Fo < 20 MHz | 1.5 | 1.5 | 1.2 | mA | | | |
| | | 20 MHz ≤ Fo < 80 MHz | 2 | 2 | 1.5 | mA | | | |
| | 80 MHz ≤ Fo < 125 MHz | 3 | 2.5 | 1.5 | mA | | | | |
| | | 8 | 7 | 5 | mA | | | | |
| Duty Cycle | 45 | 55 | 45 | 55 | 45 | 55 | % | | |
| Output Level | Output High | | 2.97 | | 1.62 | | V | | |
| | Output Low | | 0.33 | | 0.25 | | V | | |
| Transition Time: Rise/Fall Time | 1.25 MHz ≤ Fo < 10 MHz | | 3 | | 4 | | 5 | nSec | Transition times are measured between 10% and 90% of V _{DD} , with an output load of 15 pF. |
| | 10 MHz ≤ Fo < 20 MHz | | 3 | | 3 | | 4 | nSec | |
| | 20 MHz ≤ Fo < 80 MHz | | 3 | | 3 | | 4 | nSec | |
| | 80 MHz ≤ Fo < 125 MHz | | 3 | | 3 | | 4 | nSec | |
| Startup Time | | | 2 | | 2 | | 2 | mSec | |
| Tri-State (Input to Pin 1) | Enable (High Voltage or Floating) | | 2.31 | | 1.75 | | 1.26 | V | |
| | Disable (Low Voltage or GND) | | 0.99 | | 0.75 | | 0.54 | V | |
| Output Loading | 15 | | 15 | | 15 | | pF | | |
| Standby Current (@-40°C to 85°C) | 10 | | 10 | | 10 | | µA | | |
| Standby Current (@-40°C to 125°C) | 20 | | 20 | | 20 | | µA | | |
| Period Jitter (pk-pk) | 40 | | 40 | | 40 | | pSec | | |
| RMS Phase Jitter (Integrated 12 kHz~20 MHz) | 1 | | 1 | | 1 | | pSec | | |
| Aging (@25°C, 1 st year) | ±3 | | ±3 | | ±3 | | ppm | | |
| Storage Temp. Range | -55 | | +125 | | -55 | | +125 | °C | |

FREQ. STABILITY vs. TEMP. RANGE

| Temp.(°C) | ppm | ±20 | ±25 | ±50 |
|------------|-----|-----|-----|-----|
| -10 ~ +60 | ○ | ○ | ○ | ○ |
| -20 ~ +70 | △ | ○ | ○ | ○ |
| -40 ~ +85 | X | △ | ○ | ○ |
| -40 ~ +125 | X | X | △ | △ |

○: Available △:Conditional X: Not Available
 Inclusive of calibration @ 25°C ,operating temperature range,input Voltage variation,load variation,aging (1st year),shock,and vibration

Note: not all combination of options are available. Other specifications may be available upon request.

Specifications subject to change without notice.

Looking for pricing, stock, or lifecycle information?

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