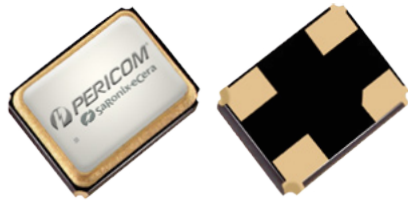


1.8V ~ 3.3VDC Clipped Sinewave TCXO

JT325



3.2 x 2.5mm Ceramic SMD

| Typical Frequencies available MHz: | | |
|------------------------------------|--------|--------|
| 10.24 | 16.369 | 19.200 |
| 25.000 | 26.000 | 40.000 |

Product Features

- Low Current
- Tight temperature stability
- Clipped Sinewave output levels
- Excellent Phase Noise
- Industrial Temperature Range
- Pb-free and RoHS/Green compliant
- Fast lead time

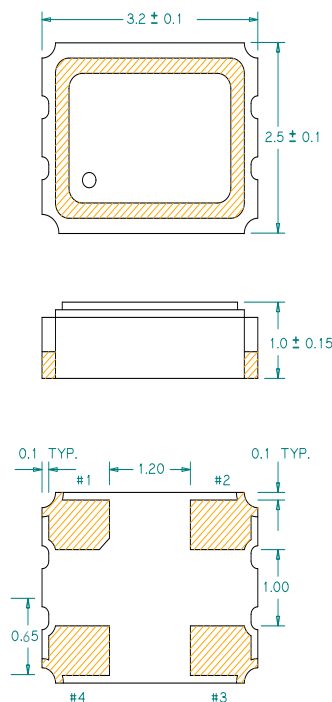
Product Description

The JT325 TCXO series is a high performance temperature compensated oscillator with a Clipped Sinewave output for a very low operating supply current. It supports various power supply voltages, stabilities and other features. It is designed to meet tight temperature stability application requirements.

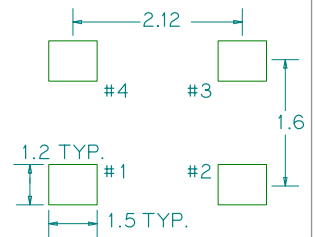
Applications

- Networking systems
- Video Systems
- GPS/Navigation
- Metering
- Wireless

Package: (scale-none, dimensions in mm)



Recommended Land Pattern:



Pin Functions:

| Pin | Function |
|-----|-----------------|
| 1 | Ground |
| 2 | Ground |
| 3 | Output |
| 4 | V _{DD} |

Part Ordering Information:

JT325 V X FFFF.FFFFFFF



Voltage:

- 1 = +3.3V
- 2 = +2.5V
- 3 = +1.8V
- 4 = +1.5V
- B = +3.0V
- C = +2.8V
- D = +2.7V
- E = +2.85V
- F = +2.75V
- G = +2.4V

Stability and Temp Range:

| Stability | Temp Range | -20/+70C | -30/+85C | -30/+75C | -40/+85C |
|-----------|------------|----------|----------|----------|----------|
| +/-0.5ppm | A | F | K | P | |
| +/-1.0ppm | B | G | L | Q | |
| +/-1.5ppm | C | H | M | R | |
| +/-2.0ppm | D | I | N | S | |
| +/-2.5ppm | E | J | O | T | |
| +/-5.0ppm | W | X | Y | U | |

Frequency:

FFFFFFFF
MHz, "4 digits/decimal/6 digits" format

Following the above format, PSE Technology Corporation part numbers will be assigned upon confirmation of exact customer requirements.



Electrical Performance

| Parameter | | Min. | Typ. | Max. | Units | Notes |
|---------------------------------------|----------------|------|------|------|--------|---|
| Output Frequency | | 10 | | 52 | MHz | |
| Supply Voltage | | 1.8 | | 3.3 | V | See ordering options, VDD ±5% |
| Supply Current | | | | 1.5 | mA | Output Frequency ≤ 30 MHz |
| | | | | 2.0 | mA | Output Frequency > 30 MHz |
| Output Voltage Level | | 0.8 | | 1.4 | V | Pk-Pk |
| Output Load | Resistance | 9 | 10 | 11 | kΩ | |
| | Capacitance | 9 | 10 | 11 | pF | |
| Frequency Stability | vs Temperature | ±0.5 | | ±5.0 | ppm | See ordering options |
| | vs Load | | | ±0.2 | ppm | ±10% load change |
| | vs Voltage | | | ±0.1 | ppm | ±5% supply voltage change at typical load |
| Static Temperature Hysteresis | | | | ±0.6 | ppm | |
| Frequency Aging | | | | ±1.0 | ppm | First year, +25°C |
| Frequency Tolerance After Two Reflows | | | | ±2.0 | ppm | @ +25°C±3°C after one hour recovery |
| Harmonics | | | | -8 | dBc | |
| Operating Temperature Range | | -30 | | +85 | °C | See ordering options |
| Storage Temperature Range | | -40 | | 85 | °C | |
| Phase Noise at 1KHz offset | | | -140 | | dBc/Hz | At 26MHz |
| Start up Time | | | | 2 | ms | |

Notes:

- For specifications other than those listed, please contact sales.
- Not all combinations of V_{DD}, Operating Temperature Range, Frequency Stability and Output Frequency are available.
- Frequency Stability vs. Temperature is reference to the mid-point between minimum and maximum frequency values over the specified Operating Temperature Range
- Frequency Stability vs. Voltage and vs. Load changes are reference to the Nominal Frequency at 25°C

For the latest product information visit: <http://www.pericom.com/products/crystals-and-crystal-oscillators/tcxo/?part=JT325>

For test circuit go to: http://www.pericom.com/assets/sre/VCTCXO_CLIPPEDESINE_RevB.pdf

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

For tape and reel information go to: http://www.pericom.com/assets/sre/tr_3225_xo.pdf

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