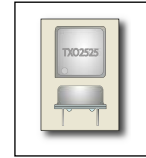


TXO 2525

Oven Controlled Crystal Oscillator



FEATURES:

SC Cut

Metal Can, Thru-Hole

Clipped Sine Wave

25.8 x 25.8 x 12.7 mm

| Parameter | Unit | Min. | Max. |
|-----------------------------|--------|-------------------|------|
| Frequency ⁽¹⁾ | MHz | 5 | 40 |
| Operating Temperature Range | °C | See Table | |
| Frequency Stability | | | |
| at 25°C | ppb | -0.1 | 0.1 |
| vs. Temp. Range | ppb | See Table | |
| vs. Voltage | ppb | -5 | 5 |
| vs. Warm-up ⁽²⁾ | ppb | -10 | 10 |
| Aging | | | |
| Daily | ppb | -5.0 | 5.0 |
| Yearly | ppb | -50 | 50 |
| 10 Years | ppm | -3.0 | 3.0 |
| Output | | | |
| Voltage | V | 3.3 ±5% | |
| Waveform | | Clipped Sine Wave | |
| Level | dBm | 6 | 10 |
| Load | Ohms | 50 | |
| Harmonics | dBc | - | -30 |
| Spurious | dBc | - | -60 |
| Input Power | | | |
| Current | mA | - | 1000 |
| Steady State @ 25°C | W | - | 1.3 |
| Phase Noise | | | |
| @ 10 Hz | dBc/Hz | - | -105 |
| @ 100 Hz | dBc/Hz | - | -130 |
| @ 1 kHz | dBc/Hz | - | -140 |
| @ 10 kHz | dBc/Hz | - | -150 |
| Frequency Adjustment | | | |
| Range | ±ppm | - | ±5 |
| Control | V | 0.0 | 3.3 |
| Slope | | Positive | |
| Input Impedance | kOhms | 100 | - |

(1) Typical Frequencies are 10, 12.8, 13, 15.36, 16.384, 19.2, 20, 25, 38.88 and 100MHz.

(2) Warm-up in 10 minutes @ 25°C reference to 1 hours

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TXO 2525 Package

Measurements: Inches (mm)
All Tolerances: ±0.008 (±0.2)

| PIN | Function |
|-----|-------------------------|
| 1 | RF Output |
| 2 | Case Ground |
| 3 | VCO Input or NC |
| 4 | Reference Voltage or NC |
| 5 | VDD |

Frequency Stability vs. Temperature Range

| Temperature | Stability (ppb) |
|-------------|-----------------|
| 0 to 70°C | ±3, ±5, ±10 |
| -30 to 70°C | ±5, ±10 |
| -40 to 85°C | ±5, ±10 |

Example Part Number: TXO2525-A-50-A-27-10M000

| | | | | | | | | | | |
|---------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|---|-------------------------|
| TXO2525 | - | <input type="text"/> | - | <input type="text"/> | - | <input type="text"/> | - | <input type="text"/> | - | <input type="text"/> |
| | | 1 | | 2 | | 3 | | 4 | | 5 |
| | | in ppb | | Voltage | | in ppm | | Temp. Range | | Frequency |
| | | Stability | | | | Pull Range | | | | Frequency in MHz |
| | | A = ±10 | | 33 = 3.3 V | | A = ±5 | | 16 = 0 to 70°C | | i.e. 10M000 |
| | | B = ±5 | | | | B = ±3 | | 27 = -30 to 70°C | | use M for decimal point |
| | | C = ±3 | | | | C = ±1 | | 48 = -40 to 85°C | | |
| | | | | | | D = ±0.4 | | | | |
| | | | | | | E = ±0.2 | | | | |
| | | | | | | N = N/C | | | | |