

TCXO GPS STO-2016A

Applications

- GPS

Features

- Small ceramic package / Dimensions (2.0×1.6×0.8)
- High stability ±0.5ppm / -30°C ~ +85°C
- Low current consumption
- Low phase noise
- Clipped sine output (DC coupled)

Specifications



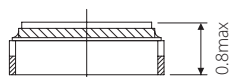
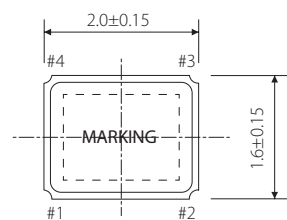
| Model | | STO-2016A |
|----------------------------|---------------------------|--|
| Nominal frequency (MHz) | | 16.368, 16.369, 19.2, 26, 27.456, 33.6 MHz |
| Frequency stability | Tolerance at 25°C | ±2.0×10 ⁻⁶ (Sixty minutes after reflow) |
| | Temperature (+25°C basis) | ±0.5×10 ⁻⁶ / -30~+85°C |
| | Supply voltage change | ±0.2×10 ⁻⁶ / Vdd ±5% |
| | Load change | ±0.2×10 ⁻⁶ / ZL ±10% |
| Aging | | ±1.0×10 ⁻⁶ / First year |
| Storage temperature range | | -40~+85°C |
| Power supply voltage (Vcc) | | +1.8V, +2.8V, +3.0V, +3.3V DC ±5% |
| Current consumption | | 2.0 mA max. |
| Output | Load (ZL) | 10kΩ//10pF |
| | Voltage | 0.8V p-p min. |
| | Waveform | Clipped Sine Wave (DC-coupled output) |

*Reference / Idd Spec

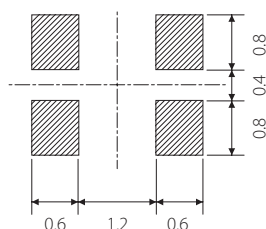
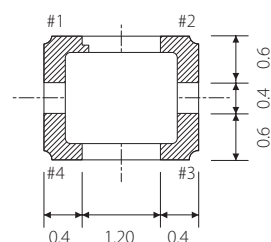
| Frequency stability[MHz] | Offset | at 10Hz | at 100Hz | at 1kHz | at 10kHz | Unit |
|--------------------------|--------|-----------|------------|------------|------------|--------|
| 16.368, 16.369 | | -90(typ.) | -115(typ.) | -135(typ.) | -150(typ.) | dBc/Hz |
| 26.000 | | -70(typ.) | -105(typ.) | -130(typ.) | -145(typ.) | dBc/Hz |

Package quantity: 1,000pcs max./Reel.

Outline and Dimensions [unit:mm]



Note: A capacitor of value 0.01μF between Vdd and GND is recommended.



| Terminal | Connection |
|----------|------------|
| #1 | GND |
| #2 | GND |
| #3 | OUTPUT |
| #4 | Vdd |