



CT 003 Series *Oscillator (OCXO)*

CT 003 Series Oscillator (OCXO) is made up of a high Q value、high-precision and low aging quartz crystal element. It combines the constant temperature technology, voltage control technology, micro processing technology and automatic detection, is a highly stable and low aging rate oscillator widely used in high accuracy required timing solutions.

Features

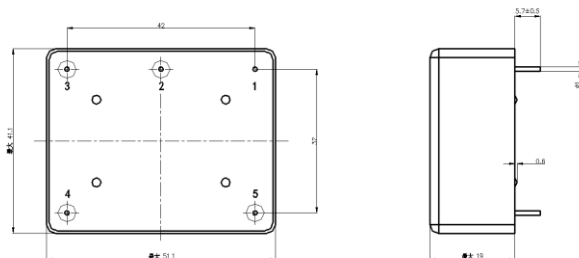
- Phase noise is up to -160dBc/Hz @10kHz
- Short-term stability (in seconds) less than 3E-12
- Frequency aging rate can reach 5E-10



Specifications

| | | | |
|------------------------------|------------------------|---|------------------|
| Frequency | 10MHz | Phase Noise | -100dBc/Hz@1Hz |
| Power Voltage | 12V±10% | | -130dBc/Hz@10Hz |
| Power Consumption | 6W(Start) 2.5W(Stable) | | -150dBc/Hz@100Hz |
| Output Waveform | Sine wave | | -155dBc/Hz@1kHz |
| Output Power | 7dBm±1dBm/50Ω | | -160dBc/Hz@10kHz |
| Short term(1S) | <3E-12/1s | Voltage-Controlled Characteristics (Z> 10K) | >0.8ppm(0 - 10V) |
| Aging/day | <5E-10 | | Linearity<10% |
| Operating Temperature | -20°C~+70°C | | Positive Slope |
| Preheating Time | 1h | | |

Structure and Pin Definition



| Pin | Function |
|-----|-----------------------|
| 1 | Earth |
| 2 | Voltage Control Input |
| 3 | Air |
| 4 | Power Voltage |
| 5 | Signal Output |