

OCXO-200 NEW

Ovenized Crystal Oscillator

Microwave Dynamics' Ovenized Crystal Oscillators provide high stability (0.1 ppm) in the frequency range of 70 to 120 MHz.

Built to the same high standards as our Dielectric Resonator Oscillators, these OCXOs provide an excellent reference input complementing our DRO line.

These units feature high stability, fast warm-up, low power requirements, rugged military type housings and fast delivery.



General Specifications:

| | |
|------------------------|---|
| Output Frequency Range | 70 MHz to 120 MHz |
| Output Level | + 3 dBm into 50 ohms |
| Output Waveform | Sine-wave |
| Harmonic Distortion | < -15 dbc |
| Load | 50 ohms |
| Input Supply Voltage | + 12 VDC \pm 10% |
| Input Power | <800 mA 1st 3 sec <230 mA next 60 sec 130 mA after warmup |
| Warm-up Time | <1.5 minutes from + 25° C for frequency accuracy to be within $\pm 1 \times 10^{-7}$ of prior frequency after 24 hours off-time |
| Storage Temperature | - 55° C to + 85° C |

Operating Temperature:

| Model Number | Temp Range (°C) | Stability (ppm) |
|--------------|--------------------|-----------------|
| OCXO-200K | + 15° C to + 35° C | ± 0.1 |
| OCXO-200L | 0° C to + 50° C | ± 0.5 |
| OCXO-200M | - 40° C to + 85° C | ± 5 |

Part No **OCXO-200y-xx.xxx**

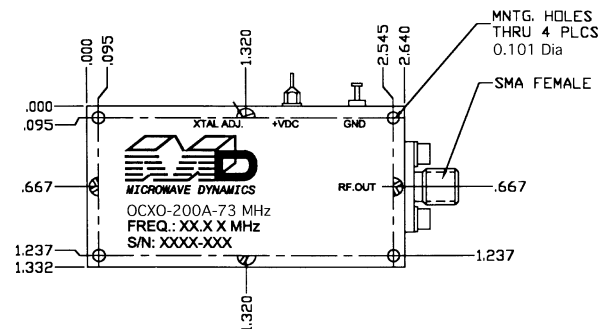
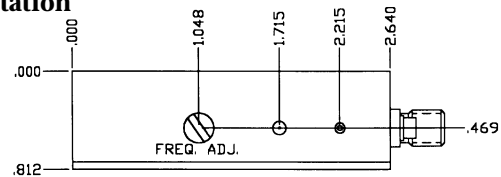
y = Temperature Range

x = Frequency

Frequency Stability as a Function of:

| | |
|---------------|--|
| Temperature | < ± 0.5 ppm over 0° C to + 50° C ambient |
| Input Voltage | < $\pm 3 \times 10^{-8}$ for a ± 10 % change in input supply |
| Load | < $\pm 1 \times 10^{-8}$ for a ± 10 % change in load |
| Time Domain | Short-term 1 Second < 3×10^{-11} |
| Aging | Medium-term 24 hours < $\pm 1 \times 10^{-9}$ after 72 hours on-time Long-term < 5×10^{-8} First Year < 2×10^{-8} Second Year < 1.5×10^{-8} Worst case |

Orientation



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