

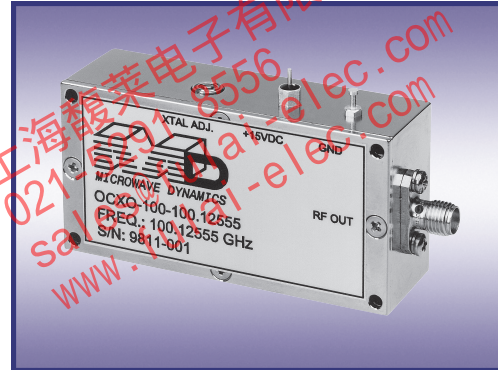
OCXO-200

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
 Phase Noise -150 dBc/Hz @ 10KHz
 Harmonic Distortion <-15 dbc
 Load 50 ohms
 Input Supply Voltage +12VDC <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 + 75°C	± 5

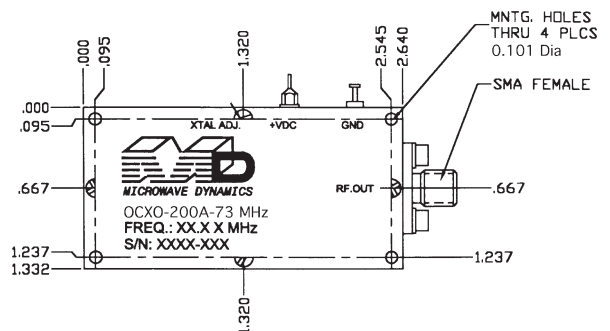
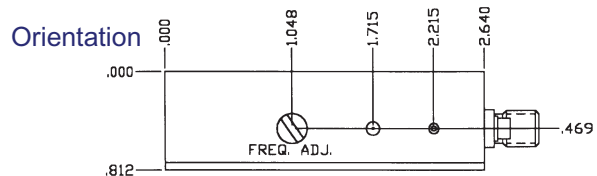
Part No OCXO-200y-xx.xxx

y = Temperature Range

x = Frequency

Frequency Stability as a Function of:

Temperature ± 0.5 ppm over 0° C + 50°C ambient
 Input Voltage $\pm 3 \times 10^{-8}$ for a $\pm 10\%$ change in input supply
 Load $\pm 1 \times 10^{-8}$ for a $\pm 10\%$ 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



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