



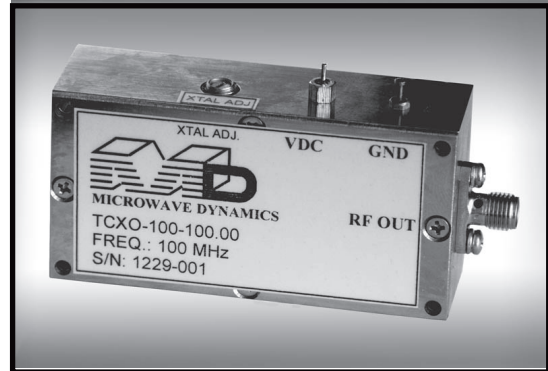
TCXO-100

Low Cost Temperature Compensated Crystal Oscillator

Microwave Dynamics' Crystal Oscillators provide stability of +/- 3 ppm at frequency of 100 MHz. Parts are available at low cost and fast delivery.

Built to the same high standards as our Dielectric Resonator Oscillators, these TCXOs 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	100 MHz (90-110 MHz)
Output Level	+ 3 dBm (+10 dBm option)
Output Waveform	Sine-wave
Phase Noise	-155 dBc/Hz @ 10KHz
Harmonic Distortion	<-15 dbc
Load	50 ohms
Input Supply Voltage	+12VDC <100 mA
Frequency Adjustment (Mechanical)	+/- 3 ppm

Frequency Stability as a Function of

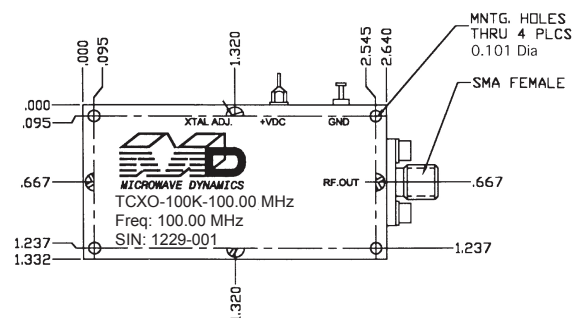
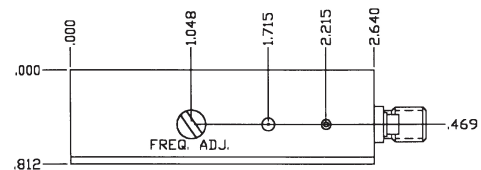
Temperature	< ± 3 ppm over 0° C + 50°C ambient
Input Voltage	< ± 3x10 ⁻⁸ for a ± 10 % change in input supply
Load	< ± 1x10 ⁻⁸ for a ± 10 % change in load
Time Domain	Short-term 1 Second <3x10 ⁻¹¹
Aging	< ± 1x10 ⁻⁶ / year

Dual or triple output is available (optional)

Storage Temperature	-55°C to + 85°C
Operating Temperature	0°C to + 50°C

Stability (ppm)	Temp Range (°C)
+/- 3 ppm	0°C to + 50°C
+/- 1.5 ppm	+15°C to + 50°C
+/- 8 ppm	-10°C to + 65°C

Orientation



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