



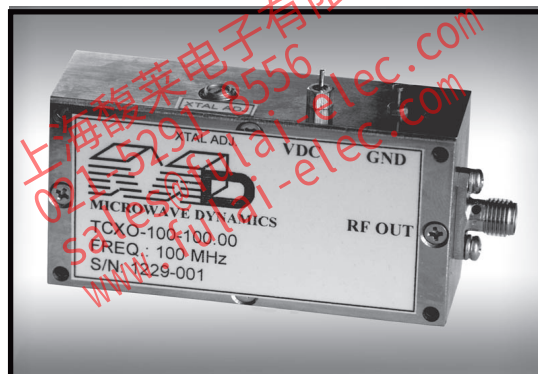
TCXO-100

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

Dual or triple output is available (optional)

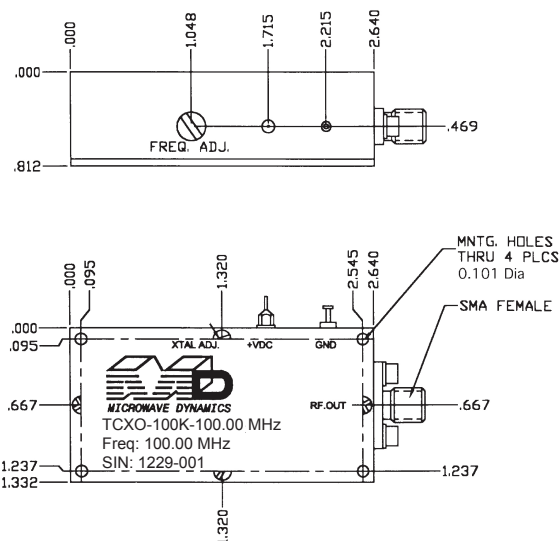
Storage Temperature	-55°C to + 85°C
Operating Temperature	0°C to + 50°C

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

Frequency Stability as a Function of

Temperature	$< \pm 3$ 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 $< 3 \times 10^{-11}$
Aging	$< \pm 1 \times 10^{-6}$ / year

Orientation



Microwave Dynamics

16541 Scientific Way
Irvine, CA 92618

Tel 949-679-7788 Fax 949-679-7748

email info@microwave-dynamics.com

web www.microwave-dynamics.com