

Digitally Controlled Crystal Oscillator

(MIS-20079/26)



The /26 Digitally Controlled Crystal Oscillator (DCXO) combines the frequency stability of a crystal oscillator source with the flexibility of Direct Digital Synthesis (DDS) in a temperature controlled housing to provide a highly accurate output signal. The output frequency of $70.2 \text{ MHz} \pm 140 \text{ KHz}$ is controlled by a 16 bit binary word supplied from an external source to control the frequency.

SPECIFICATIONS

Output frequency	70 Mhz	Phase noise.....	>138dB/10KHz
Frequency Deviation.....	$\pm 140 \text{ KHz}$	Isolation.....	$\geq 40 \text{ db}$
Frequency Increment	4.2735 Hz	Spurious Levels.....	$\geq 84 \text{ dBc}$
Output Power	$9 \pm 0.8 \text{ dBm}$	Mech freq. Adjustment	$\pm 5 \text{ ppm min.}$
Long Term Stability	$\pm 1.5 \times 10^{-6}/\text{yr.}$	Operating Temp Range	$-20^\circ \text{ to } 60^\circ \text{ C}$

For more information contact

API Technologies
23 N. Division Street
Auburn, NY 13021
Phone (315) 237-6600 Fax (315) 253-6247