

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 MHz \pm 140 KHz is controlled by a 16 bit binary work supplied from an external source to control the frequency.



Specifications

<i>Output Frequency</i>	70Mhz
<i>Frequency Deviation</i>	\pm 140Khz
<i>Frequency Increment</i>	4.2735 Hz
<i>Output Power</i>	9 \pm 0.8dBm
<i>Long Term Stability</i>	\pm 1.5 \times 10 ⁻⁶ /yr.
<i>Phase Noise</i>	>138dB/10KHz
<i>Isolation</i>	\geq 40dB
<i>Spurious Levels</i>	\geq 84dBc
<i>Mech Frequency Adjustment</i>	\pm 5 ppm min.
<i>Operating Temperature Range</i>	-20° to 60° C