

# Oven Controlled Crystal Oscillator

- Frequency range 2.0MHz ~ 150.0MHz
- Excellent temperature stabilities
- Fast warm-up, low power consumption
- High precision glass overtone crystal

CO603

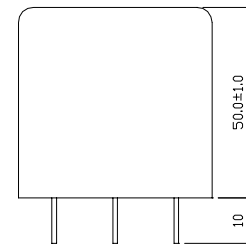
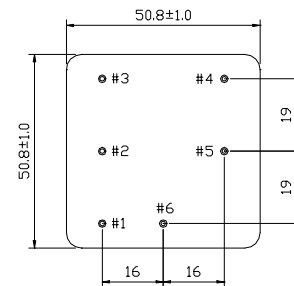
## Specifications:

<b>Frequency Range:</b>	2.0 MHz or 150.0 MHz	
<b>Operating Temperature:</b>	0°C ~ +50°C	- A
	-10°C ~ +45°C	- B
	-10°C ~ +55°C	- C
	-20°C ~ +60°C	- D
	-30°C ~ +70°C	- E
<b>Storage Temperature:</b>	-40°C ~ +85°C	
<b>Frequency Stability:</b>		
Accuracy:	$\pm 5 \times 10^{-9}$	
Vs. Temperature:	$\pm 5 \times 10^{-7}$	- 57
	$\pm 1 \times 10^{-7}$	- 17
	$\pm 5 \times 10^{-8}$	- 58
	$\pm 1 \times 10^{-8}$	- 18
	$\pm 5 \times 10^{-9}$	- 59
Short-Term Stability:	$\pm 5 \times 10^{-12}$	per second
Aging Rate:	$\pm 1 \times 10^{-10}$	per day
	$\pm 5 \times 10^{-9}$	per year max
<b>Output Waveform:</b>	Clipped-Sine Wave, HCMOS	
<b>Output Level:</b>	1.0 V <sub>p-p</sub> min clipped-sine @ 1K $\Omega$ TTL, HCMOS compatible	
<b>Phase Noise:</b>	-100dBc/Hz	@ 10 Hz
	-130sBc/Hz	@ 100 Hz
	-140dBc/Hz	@ 1 KHz
	-145dBc/Hz	@ 10 KHz
<b>Harmonics Distortion:</b>	-25 dB	
<b>Supply Voltage:</b>	+5.0 VDC ( $\pm 5\%$ )	
	+12.0 VDC ( $\pm 5\%$ )	- P
<b>Supply Current:</b>	500mA max at warm-up 150mA max after warm-up at 25°C	
<b>Frequency Adjust:</b>	$\pm 3.0$ ppm tuning via ext potentiometer	

### Note:

1. Other frequencies, stabilities, and operating temperature ranges available. Consult VTC Support for specific requirements.
2. Not all combinations of the above, stabilities, and temperature ranges are available. Consult VTC Support if your requirement is not standard.
3. All specifications subject to change without notice.

## CO-D



Pin	Configurations
1	V <sub>cc</sub>
2	V <sub>ref</sub>
3	V <sub>c</sub> /N <sub>c</sub>
4	Ground
5	Output
6	V <sub>cc</sub> Ground

All dimensions are in mm

## Ordering Information

Product name + Temperature + Stability + Frequency + Other Specification Code.

i.e. CO603C18-10.0MHz

or CO603D58P-10.0MHz