

# Oven Controlled Crystal Oscillator

- Low power consumption
- Excellent temperature stabilities
- High stability AT-cut crystal
- Fast warm-up

CO600

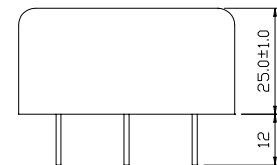
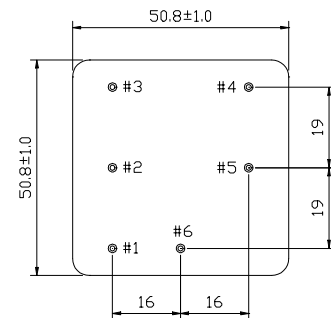
## Specifications:

<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:	$\pm 2 \times 10^{-10}$	per second
Aging Rate:	$\pm 1 \times 10^{-9}$	per day
	$\pm 5 \times 10^{-7}$	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>	-30 dB	
<b>Supply Voltage:</b>	+5.0 VDC ( $\pm 5\%$ )	
	+12.0 VDC ( $\pm 5\%$ )	- P
<b>Supply Current:</b>	400mA max at warm-up 100mA max after warm-up at 25°C	
<b>Warm-up:</b>	4.0 Watts max	
<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-A



Pin	Configurations
1	Vcc
2	Vref
3	Vc/Nc
4	Ground
5	Output
6	Vcc Ground

All dimensions are in mm

## Ordering Information

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

i.e. CO600C18-10.0MHz  
or CO600D58P-10.0MHz