

## Voltage Controlled Crystal Oscillator

- Half-size DIL-8 standard package
- 1.5MHz to 50.0MHz
- HCMOS/TTL Compatible output
- Broad range of Pullability specifications
- Hermetically sealed metal package

VO402

### Specifications:

**Frequency Range:** 1.50 MHz ~ 50.00 MHz

**Operating Temperature:**

-10°C ~ +60°C	- B
-20°C ~ +70°C	- C
-30°C ~ +75°C	- D
-40°C ~ +85°C	- U

**Storage Temperature:** -55°C ~ +125°C

**Stability Vs. Temperature:** ± 20 ~ ± 50ppm max

**Vs. Input Voltage:** ± 5ppm ± 5%

**Aging:** ± 5ppm max first year

**Pulling Range:** ± 80ppm ~ ± 200 ppm

**Control Voltage:** 0.5V to 4.5V (V<sub>DD</sub>=5V)  
0.3V to 3.0V (V<sub>DD</sub>=3.3V)

**Output Waveform**

TTL/50±5%	- A
TTL/50pF/50±5%	- E
HCMOS/15pF/50±5%	- J
HCMOS/50pF/50±5%	- F

**Rise/Fall Time**

8ns max (1.5MHz ~ 20MHz)	
5ns max (20MHz ~ 50MHz)	

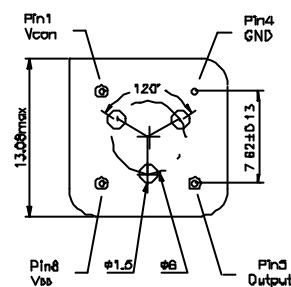
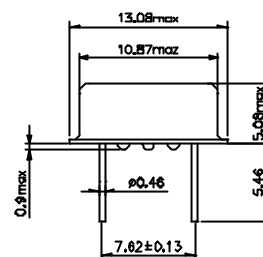
**Current Consumption:** 40mA max (V<sub>DD</sub>=5.0V)  
30mA max (V<sub>DD</sub>=3.3V)

**Supply Voltage:** 3.3V ± 10% - Standard  
5.0V ± 10% - P

#### 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.

### Half-Size DIL-8



Pin	Configurations
1	Vcon
4	Ground
5	Output
8	Supply V <sub>DD</sub>

All dimensions are in mm

### Ordering Information

Product name + Temperature Code + Stability + Output Code + Pulling Range + V<sub>DD</sub> Code + Frequency.

i.e. VO402C25J100 - 27.0MHz