

Fixed Frequency Crystal Oscillator

- TTL and CMOS compatible output
- Tri-state output option
- Frequency up to 100 MHz
- Low power, 5.0V voltage supply
- Ultra miniature ceramic SMD package

PO301

Specifications:

Frequency Range: 1.5440 MHz ~ 100.0000 MHz

Operating Temperature:

0°C ~ +50°C	- A
-10°C ~ +60°C	- B
-20°C ~ +70°C	- C
-30°C ~ +75°C	- D
-40°C ~ +85°C	- E

Storage Temperature: -40°C ~ +85°C

Frequency Stability:

± 100 ppm
± 50 ppm Standard
± 25 ppm
± 20 ppm

Supply Voltage: 5.0 V_{DC} ±10%

Supply Current

1.5440MHz ~ 35.9999MHz	25mA max
36.0000MHz ~ 69.9999MHz	60mA max
70.0000MHz ~ 100.0000MHz	80mA max

Output Level:

Output High:	w/TTL :	2.4V _{DC} min
	w/CMOS :	90% V _{DD} min
Output Low:	w/TTL :	0.4V _{DC} max
	w/CMOS :	10% V _{DD} max

Transition Times (1.544MHz ~ 25MHz)

Rise & Fall Time 5V:	7 nS
Over 25MHz	
Rise & Fall Time 5V:	6 nS

Symmetry or Duty Cycle: 45/55%

Start-Up Time: 10 mS max

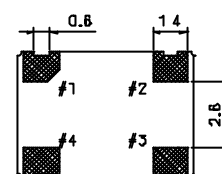
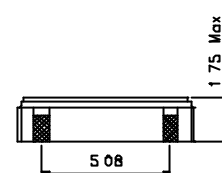
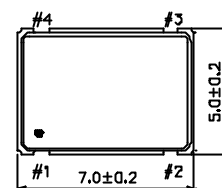
Tri-State:

Output Active:	0.8V _{DD}
Output in High-Impedance State:	0.2V _{DD}

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.

Outline Drawing



Pin	Connection
#1	NC or E/D
#2	Ground
#3	Output
#4	Supply V _{DD}

All dimensions are in mm

Ordering Information

Product name + Operating Temperature + Stability(PPM) + Frequency + Other Specification Code.

i.e. PO301C25-40.0MHz