

High Precision Crystal Oscillator

- ±10ppm over -20°C to +70°C including 10 years aging.
- Tight symmetry 45 to 55% available
- Typical 5.0 x 3.2 x 1.15mm ceramic SMD package
- Complies with Directive 2002/95/EC (RoHS Compliant)

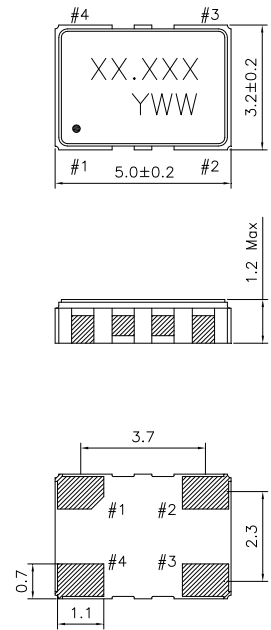
PO322

Specifications		
Frequency Range:	1.5MHz ~ 55.00MHz	
Operating Temperature:	0°C ~ +50°C	- A
	-10°C ~ +60°C	- B
	-20°C ~ +70°C	- C
	-40°C ~ +85°C	- L
Storage Temperature:	-55°C ~ +125°C	
Frequency Stability:	±20 ppm	- C
	±10 ppm	- B
Supply Voltage:	5.0V _{DD}	- C
	3.3V _{DD}	- E
Supply Current:	5.0	3.3 (V _{DD})
	1.5MHz ~ 20MHz	15 10 (mA)
	20MHz ~ 40MHz	20 15 (mA)
	40MHz ~ 55MHz	30 22 (mA)
Output Level:	Output High (Logic "1")	90% V _{DD}
	Output Low (Logic "0")	10% V _{DD}
Output Waveform:	CMOS	
Transition Times:	6 nSec max.	
Symmetry or Duty Cycle (%):	45 ~ 50	
Start-Up Time:	8 mSec max.	
Tri-State Function:	With Tri-State	- T
(Input to Pin #1)		
Absolute Clock Period Jitter:	40 pSec	
Standby Current:	50 µA	

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



Marking: Line 1: Frequency in MHz
Line 2: Date Code

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

All dimensions are in mm

Ordering Information

Frequency Stability Vs. Temperature Range

	Temperature Range \ PPM	± 10		± 20	
		○	○	○	○
A	0°C ~ +50°C	○	○	○	○
B	-10°C ~ +60°C	○	○	○	○
C	-20°C ~ +70°C	○	○	○	○
L	-40°C ~ +85°C	X	○	○	○

○ Standard X N/A □ Available Upon Request

Product Code + Operating Temperature Code + Stability Code + Supply Voltage Code + Output Waveform Code + Tri-State Code or None + Frequency.

i.e. PO322CBET-40.0MHz