Fixed Frequency Crystal Oscillator

- TTL and CMOS compatible output
- Tight symmetry 45 to 55% available
- Typical 7.0 x 5.0 x 1.3mm ceramic SMD package
- Complies with Directive 2002/95/EC (RoHS Compliant)

PO320

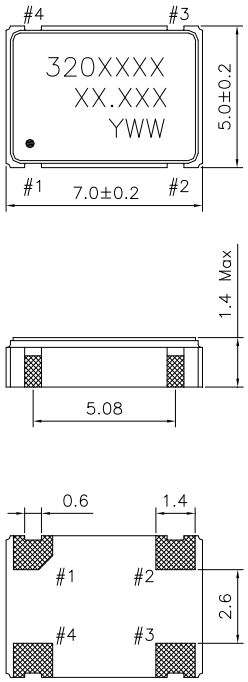
Specifications

Frequency Range:	0.048MHz ~ 133.00MHz			
Operating Temperature:	-10°C ~ +60°C			- B
	-20°C ~ +70°C			- C
	-40°C ~ +85°C			- L
Storage Temperature:	-55°C ~ +125°C			
Frequency Stability:	±100 ppm			- J
	±50 ppm			- H
	±25 ppm			- E
	±20 ppm			- C
Supply Voltage:	5.0V_{DD}			- C
	3.3V_{DD}			- E
	2.5V_{DD}			- H
Supply Current:	5.0	3.3	2.5	(V_{DD})
0.048MHz ~ 1.5MHz	7	5	5	(mA)
1.5MHz ~ 20MHz	10	7	7	(mA)
20MHz ~ 50MHz	30	20	15	(mA)
50MHz ~ 125MHz	40	30	20	(mA)
>125MHz	N/A	30	25	(mA)
Output Level:	Output High (Logic "1")		90% V_{DD}	
	Output Low (Logic "0")		10% V_{DD}	
Output Waveform:	TTL			- B
	TTL/50pF			- R
	CMOS/15pF			- K
	CMOS/50pF			- G
Transition Times:	5.0	3.3	2.5	(V_{DC})
0.048MHz ~ 1.0MHz	8	10	10	(nSec)
1.0MHz ~ 20MHz	5	6	6	(nSec)
20MHz ~ 125MHz	2	3	3	(nSec)
>125MHz	N/A	3	3	(nSec)
Symmetry or Duty Cycle (%):			45 ~ 55	
Start-Up Time (mSec) max:			8	
Tri-State Function:	With Tri-State			- T
(Input to Pin #1)				

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: Part Number
Line 2: Frequency in MHz
Line 3: Date Code

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

All dimensions are in mm

Ordering Information

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

i.e. PO320CHEKT-40MHz

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