Quartz Crystal Technology

VCXO (**CMOS**)

VX7050

General description
Ceramic packaged VCXO. Small size. Good mechanical reliability

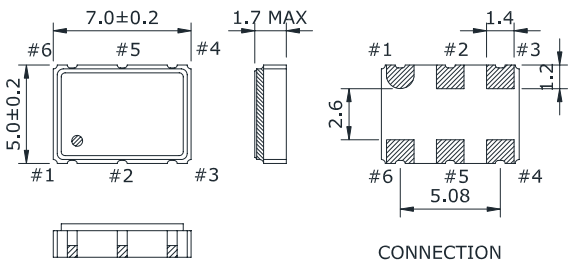
Features
Wide pull range and good linearity.
Excellent low phase noise and jitter.
Tri-State function available.

Main applications
SDH/ SONET, Multimedia, Digital TV, Optical device

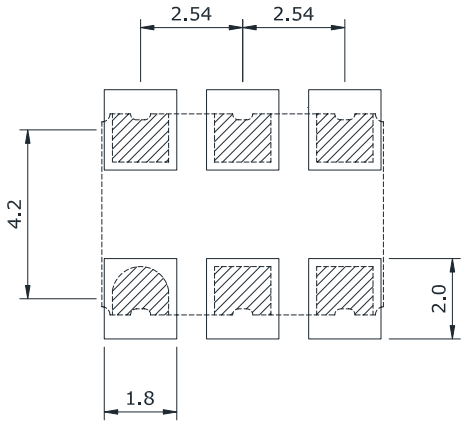
Electrical characteristics

Item	Values		
Part number	VX7050		
Output Waveform	SQUARED		
Supply voltage	+2.5V	+3.3V	+5.0V
Control Voltage	+1.25V ±1.05V(1.25V)	+1.65V ±1.35V(1.65V)	+2.5V ±2.0V(2.5V)
Frequency range	1-200 MHz	1-200 MHz	1-77.760 MHz
Frequency deviation	±50ppm , ±100ppm , ±150ppm , ±200ppm (only 5V)		
Current consumption	40mA max	50mA max	35mA max
Linearity	10%		
Slope	positive		
Operating temp. range	-20°C / +70°C or -40°C/+85°C or user spec		
Storage temp. range	-55°C / +125°C		
Frequency stability	< ±50ppm or user spec		
Output load	CMOS 15pF		
Duty cycle	40%...60% or 45%...55%		
VOH / VOL	90% Vdd min / 10% Vdd max		
Tr /Tf	10ns or user spec		
Start up time	5ms max		
Aging	< ±3ppm		
Phase jitter (12KHz - 20MHz)	1ps RMS max		
Period jitter (pk-pk)	<25ps max		
Modulation bandwidth	15KHz @ -3dB		

Dimensions



CONNECTION
#1 : V.C
#2 : Tri-state or N.C
#3 : GND
#4 : OUTPUT
#5 : Tri-state or N.C
#6 : V_{DD}



Remark : specifications subject to change without prior notice. Please confirm with our sales

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VCXO (**CMOS**)

VX7050

Part Number Generator

VX7050	3	10	A	D	D	10	E	-	010.000000	xxx
0	1	2	3	4	5	6	7		8	9

0 : Type
VX7050

1 : Vcc
2 = +2.5V
3 = +3.3V
5 = +5.0V

2 : Stability in temperature
10< ±10ppm
15< ±15ppm
20< ±20ppm
25< ±25ppm
30< ±30ppm
50< ±50ppm

3 Op. temp. range
blank = -20/+70
A=-40/+85

4 : Duty Cycle
blank = 40% - 60%
D = 45% - 55%

5 : Pulling range
C > ±50ppm
D > ±100ppm
E > ±150ppm
F > ±200ppm

6 : Linearity
5 = 5%
10 = 10%
etc

7 : Option
blank = no option
E = Enable / Disab le

8 : Frequency (MHz)
□□□.□□□□□□
max 10 digits including comma

9 : Customized code
Note : factory use

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