

VCXO (CMOS)

VX5032



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.

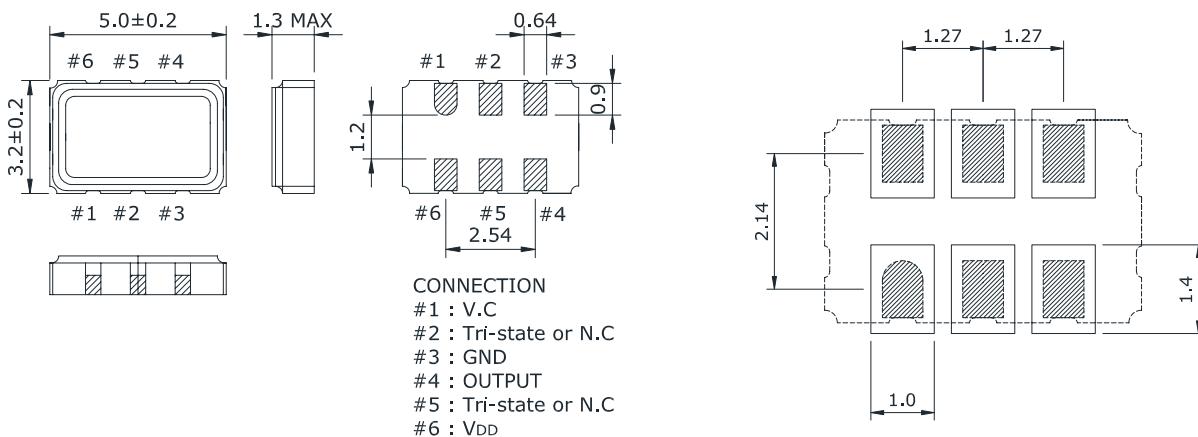
Main applications

SDH/ SONET, Multimedia, Digital TV, Optical device

Electrical characteristics

Item	Values		
Part number	VX5032		
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 - 80 MHz		
Frequency deviation	±50ppm or user spec		
Current consumption	35mA max	40mA max	50mA 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



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

VCXO (CMOS)

VX5032

Part Number Generator

VX5032 **3** **10** **A** **D** **D** **10** **E** **-** **010.000000** **xxx**
 0 1 2 3 4 5 6 7 8 9

0 : Type
VX5032

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

2 : Stability in temperature
10 $\pm 10\text{ppm}$
15 $\pm 15\text{ppm}$
20 $\pm 20\text{ppm}$
25 $\pm 25\text{ppm}$
30 $\pm 30\text{ppm}$
50 $\pm 50\text{ppm}$

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

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

5 : Pulling range
C > $\pm 50\text{ppm}$
D > $\pm 100\text{ppm}$

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

7 : Option
blank = no option
E = Enable / Disable

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

9 : Customized code
Note : factory use