

## VCXO (CMOS)

# VX3225



### 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.

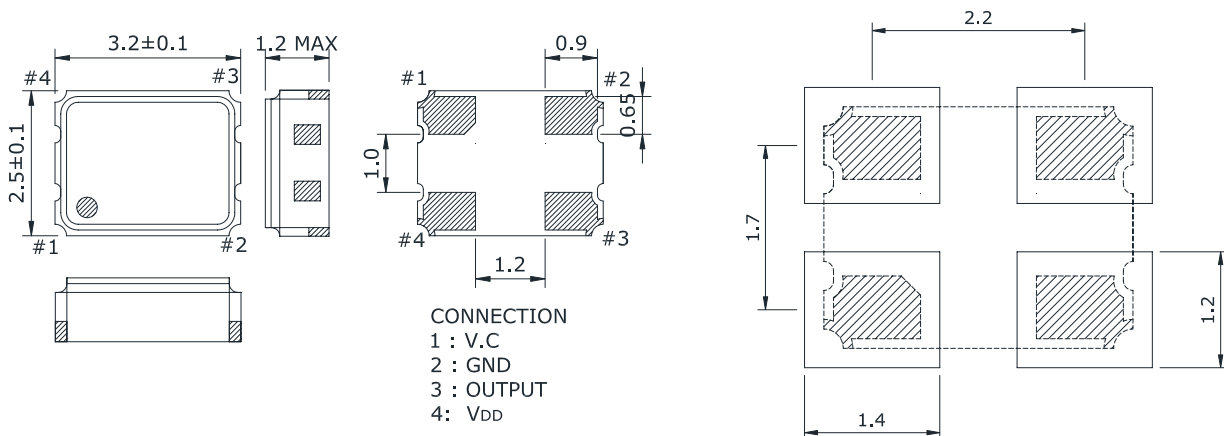
### Main applications

SDH/ SONET, Multimedia, Digital TV, Optical device

## Electrical characteristics

Item	Values		
Part number	VX3225		
Output Waveform	SQUARED		
Supply voltage	+1.8V	+2.5V	+3.3V
Control Voltage	+0.9V ±0.75V[0.9V]	+1.25V ±1.05V[1.25V]	+1.65V ±1.35V[1.65V]
Frequency range	1.25 - 60 MHz		
Frequency deviation	±80ppm or user spec		
Current consumption	10mA	10mA	10mA
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%		
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



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### Part Number Generator

**VX3225**    **3**    **10**    **A**    **D**    **D**    **10**    **E**    -    **010.000000**    **xxx**  
 0            1            2            3            4            5            6            7            8            9

**0** : Type  
VX3225

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

**2** : Stability in temperature  
10 <math>\pm 10\text{ppm}</math>  
15 <math>\pm 15\text{ppm}</math>  
20 <math>\pm 20\text{ppm}</math>  
25 <math>\pm 25\text{ppm}</math>  
30 <math>\pm 30\text{ppm}</math>  
50 <math>\pm 50\text{ppm}</math>

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

**4** : Duty Cycle  
blank = 40% - 60%

**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