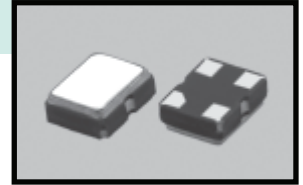


## VCXO (CMOS)

# VX2520



### 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.

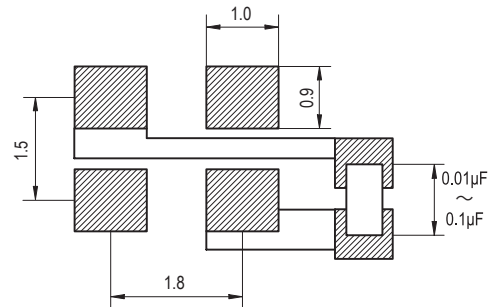
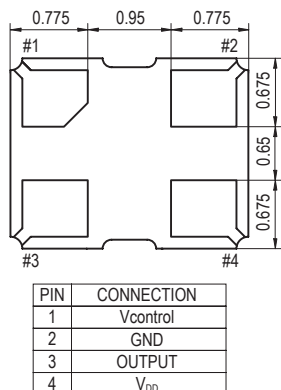
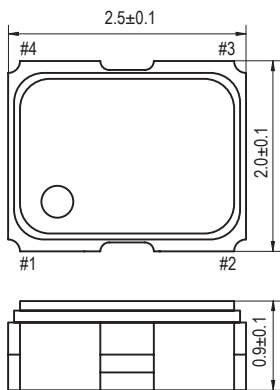
### Main applications

SDH/ SONET, Multimedia, Digital TV, Optical device

## Electrical characteristics

Item	Values		
Part number	VX2520		
Output Waveform	SQUARED		
Supply voltage	+1.8V (max 55MHz)	+2.5V	+3.3V
Control Voltage	+0.9V ±0.9V	+1.25V ±1.25V	+1.65V ±1.65V
Frequency range	1.3 - 100 MHz		
Frequency deviation	±120ppm (up to 55MHz) , ±90ppm (>55MHz) or user spec		
Current consumption up to 55MHz	2mA max	3mA max	5mA max
Current consumption >55 MHz		14mA max	19mA 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%		
VOH / VOL	90% Vdd min / 10% Vdd max		
Tr / Tf	6ns or user spec		
Start up time	5ms max		
Aging	< ±3ppm		
Phase jitter (12KHz - 20MHz)	1 ps RMS max		
Modulation bandwidth	20KHz @ -3dB		

## Dimensions



## VCXO (CMOS)

# VX2520

### Part Number Generator

**VX2520 3 10 A - D 10 E - 010.000000 xxx**  
 0 1 2 3 4 5 6 7 8 9

**0 : Type**  
VX2520

**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

