

VCXO (LVPECL, LVDS)

VX1490P, VX1490L



General Description
FR4 base VCXO with large degree of customization in order to meet any customer need.

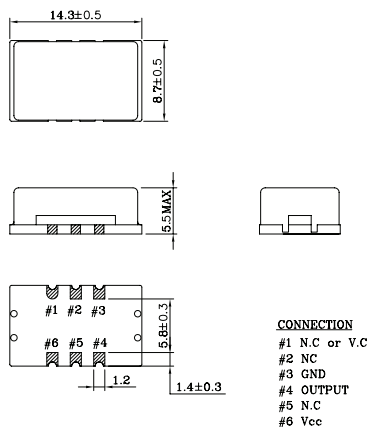
Features
Wide frequency range
Low phase noise and Jitter

Main applications
Radio transmitter, Digital image device, Ethernet, Base stations, Optical transmission

Electrical characteristics

Item	Values			
Part number	VX1490P (LVPECL)		VX1490L (LVDS)	
Output Waveform	SQUARED DIFF.			
Supply voltage	+2.5V , +3.3V			
Control Voltage	+1.25V ±1.05V[1.25V] , +1.65V ±1.35V[1.65V]			
Oscillation mode	Fund. or 3th Ov	PLL	Fund. or 3th Ov	PLL
Frequency range	1 - 65 MHz	0.75 - 800 MHz	1 - 65 MHz	0.75 - 800 MHz
Frequency deviation	±50ppm or user spec			
Current consumption	100mA 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	50Ω to Vdd-2.0V		100Ω (OUT - OUTN)	
Duty cycle	40%...60%			
Output high Level	LVPECL LVDS	1.415V - 1.76V [2.5Vdd] , 2.215V - 2.42V [3.3Vdd] 1.43 typ - 1.6V max		
Output Low Level	LVPECL LVDS	0.67V - 1.195V [2.5Vdd] , 1.47V - 1.745V[3.3Vdd] 0.9V min - 1.1V typ		
Tr /Tf	0.6ns max			
Start up time	5ms max			
Aging	< ±3ppm			
Phase jitter [12KHz - 20MHz]	1ps RMS max	3ps RMS max	1ps RMS max	3ps RMS max

Dimensions



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

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Part Number Generator

VX1490P **3** **10** **A** **-** **D** **10** **-** **-** **010.000000** **xxx**
 0 1 2 3 4 5 6 7 8 9

0 : Type
 VX1490P
 VX1490L

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

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%

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

8 : Frequency [MHz]
 □□□.□□□□□□
 max 10 digits including comma

9 : Customized code
 Note : factory use