Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEnq.com

VCXO914ZLP1 ŠXÚÒÔŠÁJT ÖÁXÔÝUÁ

Features and Benefits

Low phase noise and jitter < 0.4ps Wide range of output frequency up to 800 MHz

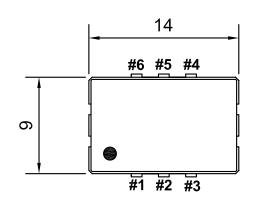
Typical Applications

10 Gigabit Ethernet SDH SONET, Fiber Channel broadband access DSL. GPON

Description

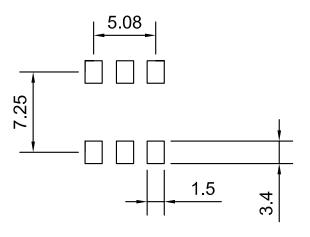
VCXO914ZLP1 offers wide frequency range, low phase noise and low jitter, all in one simplepackage, ideal for various broadband access and communication systems.

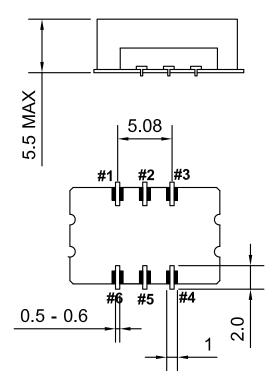
Mechanical Drawing & Pin Connections





Solder pattern





Pin Connections:

#1. Vc (Control Voltage)

#2. E/D or not connected

#3. GND

#4. RF Output

#5. Complementary Output

#6. Vdc

unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

VCXO914ZLP1 ŠXÚÒÔŠÁJT ÖÁXÔÝUÁ

Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification	Sylli	Condition	Min.	Тур.	Max.	Ullit	Note
Frequency Range	F		100		800	MHz	
Standard Frequencies			120.00, 122.88, 155.52, 156.25, 307.20, 320.00, 368.64, 460.80, 491.52, 614.40, 622.08			MHz	
Output Waveform			LVPECL				
Output Voltage			V _{OH} ≥ 1.475V V _{OL} ≤ 1.095V		V		
Output Load		@ Vdc – 2.0V	50			Ω	
Jitter (rms)		@ 12 KHz ~ 20 MHz from carrier frequency	< 0.4		ps		
Symmetry		@ ½Vdc	45		55	%	
Rise / Fall Time				1.0		ns	
Frequency Pulling Range			±50		±100	ppm	
Voltage Control		±1.25V	1.25		V		
Enable / Disable Function		Pin #4 & 5→(E) signal Pin #4 & 5→(D) no signal	Pin #2 = high or open Pin #2 = low				
Power Supply							
Voltage	V _{cc}	±5%		+2.5		V	
Supply Current			30		100	mA	
Frequency Stability			T	1	ı		
Frequency Stability vs. Temperature Tolerance Aging Supply and Load Variation		Over -20°C to +70°C Over -40°C to +85°C		±25 ±50		ppm	
Environmental Conditions							
Operating temperature range -20°C to +70°C for commercial applications -40°C to +85°C for industrial applications							

Ordering Options: Operating Temperature and Frequency Stability

Operating Temperature (w)		Frequency Stability (z)		
Code	T (°C)	Stability [ppm]		
1	-20 to +70	±25		
2	-40 to +85	±50		

Ordering Codes

Model	Frequency in MHz (up to 4 digits)	Operating Temperature vs Frequency Stability
VCXO914ZLP1	xx.yyyy	W

Example:VCXO914ZLP1-320.0000-2 has the following specifications Operating Frequency = 320.0000 MHz

Operating Frequency = 320.0000 MHzOperating Temperature = $-40^{\circ}\text{C to } +85^{\circ}\text{C}$ Frequency Stability = $\pm 50 \text{ ppm}$

Example for IR reflow soldering temperature

