

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com **ΧΟ1490ΑL** Fl ¢JĒ¢ĺĒ{{ÂJT ὂΆ́/IJᠱ

Features and Benefits

Frequency range: 1-170MHz Supply voltage: 3.3V Steady current: 50mA Max Output waveform: CMOS Frequency stability vs. operating temperature: ±20ppm Aging: ±3.0ppm per year Operating temperature: -40°C to +85°C Size: 14x9.6x5.6mm

Typical Applications

Fiber channel Ethernet SDH Serial ATA SCSI SONET

Description

XO1490AL offers good frequency stability and low phase jitter performance.

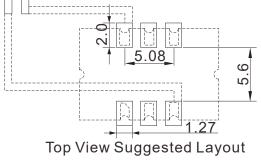
Mechanical Drawing & Pin Connections

Top View 14.15 Max. 6 5 4 6 Max . ග 2 3 1 Max. 65 ы. С Side View 5.08 2 2 1 3 0 4 +| 5 4 6 (O 1 **Buttom View** Unit in mm Drawing No: A8& \$\$\$

Pin Connections

Pin No.	Connection
1	OE or NC
2	OE or NC
3	GND
4	Output
5	NC
6	Vcc

 External high frequency power supply decoupling required.



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1mm = 0.0394 inches

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Specifications

Oscillator Specification		C. m	Condition	Value			Unit	Nata	
		Sym		Min.	Тур.	Max.	Unit	Note	
Operational Frequency		Fnom		1		170	MHz		
Output					CMOS				
Output load					15		pF		
Duty cycle		1		40		60	%		
Rise/Fall time						10	nS		
Level	High Level			0.9*Vcc			V		
	Low Level					0.1*Vcc	V		
Power Sup	ply								
Voltage		V _{cc}		1.8	3.3	5.0	V		
Current						50	mA		
Start up time						10	mS		
Frequency	Stability								
Versus Temperature				±20, ±25 or Specify			ppm		
Aging/Year			At +25°C			±3	ppm		
Phase Jitter			12KHz-20MHz			1	pS		
Period Jitter						40	pSec		
	ntal Conditions								
U	emperature range	-40°C to +85°C							
Storage terr	perature range	-55°C to	+125°C						

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