

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 TEL: 281-870-8822EMAIL:Sales@DynamicEngineers.com XO7500R-16MHz-A Í Á Â Â { Â ŬT ÖÁ U

#### **Features and Benefits**

25 KHz to 200 MHz operating frequency range for 3.3V supply 15 mA max. Less than +/- 25 ppm over -40°C to +85°C CMOS output 7.0 x 5.0 x 1.4 mm SMD 3.3V supply voltage

### **Typical Applications**

CPU, Graphics, Multimedia A/V clocks MPEG/DVD/HDTV clocks Laser engine pixel/set-top clocks OC-3, OC-12, OC-48 and OC-192 clocks SONET/SDH/ATM clocks Fast Ethernet and Gigabit Ethernet clocks NTSC/PAL encoder/Decoder clocks PLL/synthesizer clocks Fibre channel and ADSL clocks

### **Mechanical Drawing & Pin Connections**

#### Drawing No: MD150027-2



PAD	Function
#1	Enable/Disable
#2	Ground
#3	Output
#4	Supply Voltage

Unit : mm



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Rev.1



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## **Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Noto	
			Min.	Тур.	Max.	Unit	Note	
Nominal Frequency	Fnom			16		MHz		
Output Wave Form			CMOS					
Output Voltage Level(High)			2.97			V		
Output Voltage Level(Low)					0.33	V		
Output Load				15		pF		
Duty Cycle			40	50	60	%	Optional: 50%+/-5%	
Rise and Fall Times		Measured between 10% <>90% of wave form(CL=15pF)			10.0	nSec		
Start Time					5.0	mSec		
Tri-State Function		Output is high impedance when "0" is applied to pin 1						
		Disable time is 150 nsec max.						
Power Supply								
Supply Voltage	V <sub>cc</sub>		3.135	3.3	3.465	V		
Supply Current		At maximum supply voltage			15	mA		
Frequency Stability								
Vs. Temperature		From -40°C to +85°C			+/-25	ppm		
Aging		Per year			+/-3	ppm		
Parameter	Refere	Reference Std.			Test Condition			
Operating Temperature range	-40°C t	o +85°C						
Storage Temperature range	-50°C t	o +100°C						