Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077
TEL: 281-870-8822EMAIL:Sales@DynamicEngineers.com

XO7500R-25MHz-A
5 X 7 mm SMD XO

Features and Benefits

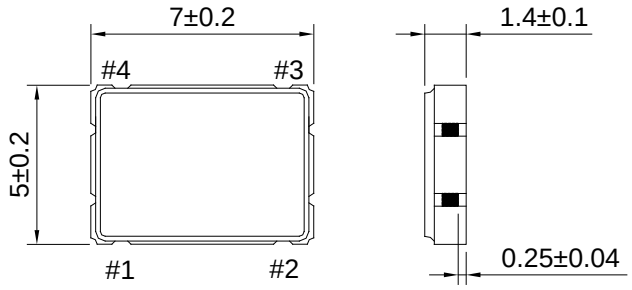
25 KHz to 200 MHz operating frequency range for 3.3V supply
15 mA max.
Less than +/- 25 ppm over -40°C to +85°C
CMOS output
7.0 x 5.0 x 1.4 mm SMD
3.3V supply voltage

Typical Applications

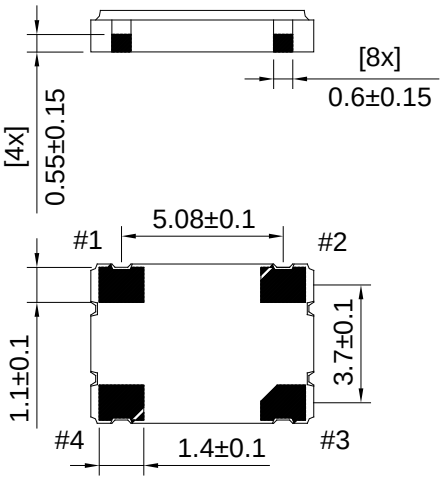
CPU, Graphics, Multimedia A/V clocks
MPEG/DVD/HDTV clocks
Laser engine pixel/set-top clocks
OC-3, OC-12, OC-48 and OC-192 clocks
SONET/SDH/ATM clocks
Fast Ethernet and Gigabit Ethernet clocks
NTSC/PAL encoder/Decoder clocks
PLL/synthesizer clocks
Fibre channel and ADSL clocks

Mechanical Drawing & Pin Connections

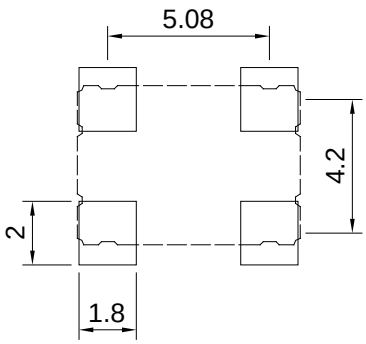
Drawing No: MD150027-2



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



Unit : mm



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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F_{nom}			25		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_{cc}		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	Reference Std.	Test Condition
Operating Temperature range	-40°C to +85°C	
Storage Temperature range	-50°C to +100°C	