

Dynamic Engineers Inc.

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Features and Benefits

Frequency range: 1-150MHz Output: CMOS/TTL Supply voltage: 5.0/3.3V Current: 60mA Max. Frequency stability vs. temperature: ±25PPM Operating temperature: -40°C to +85°C Size: 5.0x3.2x1.4 mm

Typical Applications

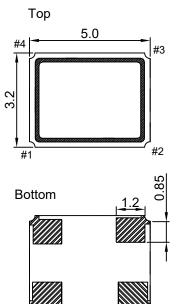
Cellular Base Stations Instrumentation Microwave Applications Radar reference

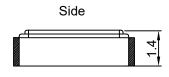
Description

The XO5300AX01 is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD2(00(%1





Pin Connections

Pin	Function	
1	OE	
2	GND	
3	RF Output	
4	Supply Voltage	

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sym	Condition	Value			Unit	Nete	
Specification			Min.	Тур.	Max.	Unit	Note	
Frequency Range	Fnom		1		150	MHz		
RF Output								
Signal Waveform				CMOS	/TTL			
Load	RL	CMOS		15		pF		
		TTL		10		pF		
H-Level Voltage	V _H		90%Vcc			V		
L- Level Voltage	VL				10%Vcc	V		
Duty Cycle			40	50	60	%		
Rise/Fall time		10%-90%		8	10	ns		
Output Control		Enable – High Disable Low						
Power Supply								
Supply Voltage	Vcc			3.3		V	See ordering information	
Start up Time	T _{up}			10		ms		
Current Consumption				45	60	mA		
Frequency Stability								
Versus Operating Temperature Range		Reference to +25°C		±25		ppm	See ordering information	
Environmental, Mechanical Conditions								
Operating temperature range	-20°C to +	+70°C, -40°C to +85°C						

Ordering Information

XO5300AX01	-	10MHz	-	Х	Х	Х	Х
Group				01	02	03	04

For example, XO5300AX01-10MHz-1-1-2-2 denotes the XO has the following specifications: Temperature Range: -20°C to +70°C

Temperature Range:	-20°C to
Stability Over Temperature:	±25ppm
Supply Voltage:	3.3V
Output Type:	TTL

01	Temperature Range
Code	Specification
1	-20°C to +70°C
2	-40°C to +85°C

03	Supply Voltage
Code	Specification
1	2.5V
2	3.3V

04	Output Type
Code	Specification
1	HCMOS
2	TTL

02	Frequency Stability
Code	Specification
1	±25ppm
2	±50ppm
3	±100ppm