Features and Benefits

Frequency range: 10-170MHz Supply voltage: 3.3V / 5.0V Steady current: 40mA Max Output waveform: HCMOS/TTL

Frequency stability vs. Overall: ±50ppm

Pulling range: ±100ppm

Operating temperature: -40°C to +85°C

Size: 5.0x3.2x1.3mm

Typical Applications

Instrument
Microwave Communication
Test & Measurement
Telecom Systems
Satellite Communication

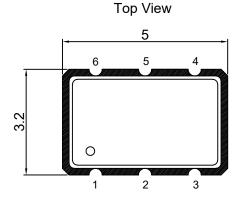
Description

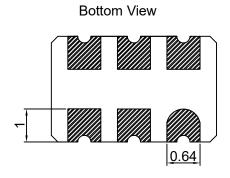
VCXO5300AX offers low noise and high performance, all in a compact package to suit the different communication needs.

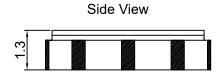
Mechanical Drawing & Pin Connections

Drawing No:

MD24002(-1







PIN	Function
#1	Control Voltage/N.C.
#2	E/D
#3	GND
#4	Output
#5	N.C.
#6	Supply Voltage

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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Specifications

Oscillator		Condition	Value				
Specification	Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}		10		170	MHz	
RF Output						•	
Signal Waveform		HCMOS/TTL			S/TTL		
High Level			90%Vcc			V	
Low Level					10%Vcc	V	
Rise/Fall time					5	ns	
Duty Cycle			45	50	55	%	
Load				15		pF	
Power Supply							
Supply Voltage	V _{cc}		3.13	3.3	3.47	V	
Supply Voltage	V cc		4.75	5.0	5.25	V	
Current Consumption				15	40	mA	
Output Control		Enable – High, Open Disable - Low	30%Vcc		70%Vcc	V	
Startup time					10	msec	
Frequency Adjustment Range							
Absolute Pulling Range (APR)			±50, ±100			ppm	
Control valtage		3.3V	0.3	1.65	3.3	V	
Control voltage		5.0V	0.5	2.5	4.5	V	
VC Input Impedance				5		Mohm	
Slope			Positive				
Linearity			±10%				
Frequency Stability							
Frequency stability		Reference to +25°C	±50, ±100		ppm		
Versus Load		5% change		•	±1	ppm	
Versus Supply		5% change		•	±1	ppm	
Perturbation		Per 1°C			±3	ppm	
Aging per year					±3	ppm	
Environmental, Mechanical Conditio							
Operating temperature range	-20°C to +70°C or -40°C to +85°C						
Storage temperature range	-45°C to -	+90°C					