

Dynamic Engineers Inc.

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Features and Benefits

2.0x1.6 size, low profile of 0.75mm
Frequency range from 4MHz to 54MHz
Low voltage operation
Low current consumption
3-state function
Automatic mounting and reflow soldering
RoHS Compliant /Pb Free

Typical Applications

IWLAN GPS Bluetooth, Smart phone, Cellular, DVC, etc.

Description

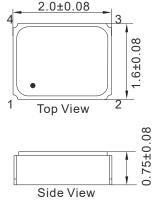
XO2016AL offers frequency range from 4MHz to 54MHz, high precision and high frequency stability, allowing for high density surface mounting, Ideally suited designed for use in Portable Applications.

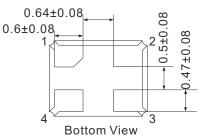
Mechanical Drawing & Pin Connections

Drawing No:

MD20001+-1

3

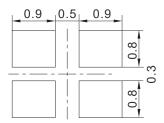




Pin Connections

Pin	Connection
1	OE (Output Enable)
2	GND
3	Output
4	Vcc

Unit in mm 1mm = 0.0394 inches





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Specifications

Oscillator Specification	Sym	Condition	Value				
			Min.	Тур.	Max.	Unit	Note
Frequency	F		4		54	MHz	
Output			CMOS				
Oscillator Mode			Fundamental				
Rise Time / Fall Time	Tr / Tf				5.0	nsec	
Start Time					5	msec	
Output Load				15		pF	
Symmetry (Duty ratio)			45		55	%	
Power Supply							
Supply Voltage	V_{DD}			3.3		V	(1.8V, 2.5V available)
Supply Current					5	mA	
Voltage Vol (Max.) /Voh (Min.)			0.1 V _{DD} /0.9 V _{DD}				
Frequency Stability							
Frequency Stability			±25ppm, ±50ppm			ppm	
Aging		@+25°C 1st year			±3	ppm	
Phase Jitter (12KHz~20MHz)					1	pS	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					