Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

XO2016Z2
Miniature SMD CMOS Clock Oscillator

Features and Benefits

Frequency from 0.75 MHz up to 80.00 MHz
Sub miniature package: 2.0 x 1.6 x 1.0 mm
High shock and vibrational resistivity

Typical Applications

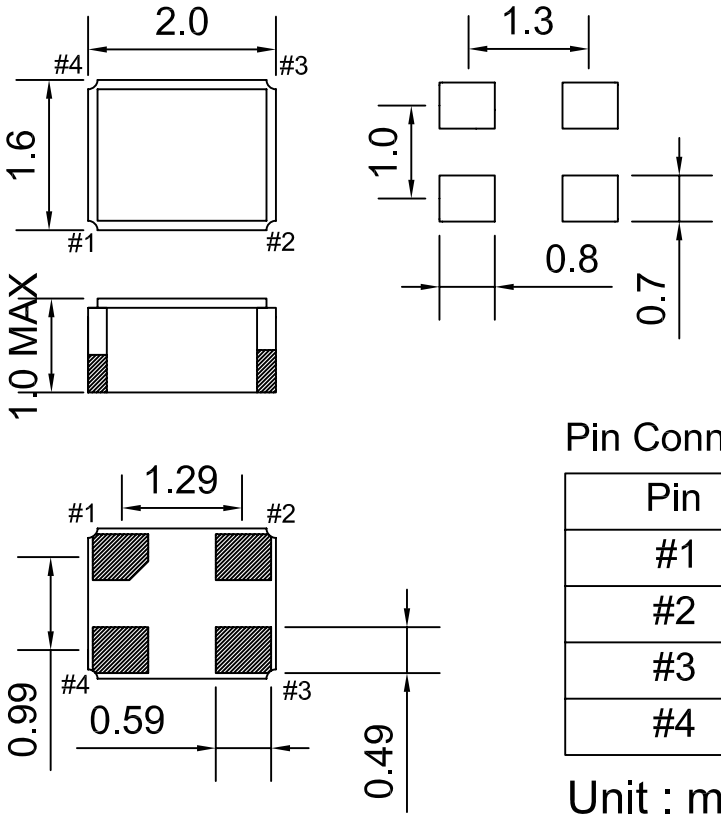
Telecommunications
Wireless communications

Description

XO2016Z2 offers wide frequency range, operating temperature and frequency stability options, along with high shock and vibrational resistivity all in a sub miniature package, ideal for various telecommunication and wireless communication applications.

Mechanical Drawing & Pin Connections

Drawing No: **MD170034-1**



Pin Connection

Pin	Function
#1	Tri-state
#2	GND
#3	Output
#4	VDD

Unit : mm
1mm=0.0394inch

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Specifications

Oscillator Specification	Sym	Condition	Value Min.	Value Typ.	Value Max.	Unit	Note
Frequency Range	F_{nom}		0.75		80.00	MHz	
Standard Frequencies			4.0, 12.0, 16.0, 20.0, 24.0, 26.0, 32.0, 38.4, 40.0, 75.0			MHz	
Output Waveform			CMOS				
Output Level			$V_{OH} \geq$ 0.9Vcc $V_{OL} \leq$ 0.1Vcc			Vdc	
Output Load				15		pF	
Symmetry		@ ½Vdc	45		55	%	
Rise / Fall Time			3 ~ 5			ns	
Tri-state function		Pin #3 → signal Pin #3 → high impedance	Pin #1 = high or open Pin #1 = low				
Power Supply							
Voltage	V_{cc}	±5%		+2.5		V	
Supply Current				<8		mA	
Frequency Stability							
Frequency Stability vs. Temperature Tolerance Aging Supply and Load Variation			±25		±100	ppm	
Environmental Conditions							
Operating temperature range	-20°C to +70°C for commercial applications -40°C to +85°C for industrial applications						
Storage temperature range	-55°C to +125°C						

Ordering Options: Operating Temperature and Frequency Stability

Operating Temperature (w)		Frequency Stability (z)	
Code	T (°C)	Code	Stability [ppm]
1	-20 to +70	1	±25
2	-40 to +85	2	±50
		3	±100

Ordering Codes

Model	Frequency in MHz (up to 4 digits)	Operating Temperature	Frequency Stability
XO2016Z2	xx.yyyy	w	Z

Example:XO2016Z2-26.0000-2-3 has the following specifications

Operating Frequency = 26.0000 MHz
Operating Temperature = -40°C to +85°C
Frequency Stability = ±100 ppm

Example for IR reflow soldering temperature