LC &) &\$N' Miniature SMD CMOS Clock Oscillator

Features and Benefits

Frequency from 1 MHz up to 80 MHz Sub miniature package: 2.5 x 2.0 x 1.0 mm High shock and vibrational resistivity

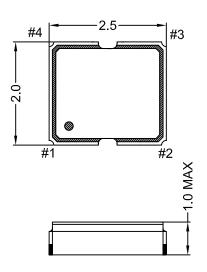
Typical Applications

Telecommunications
Wireless communications

Description

XO2520ZH 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 applicationsÈ

Mechanical Drawing & Pin Connections

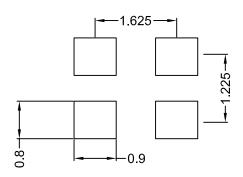


Drawing No:

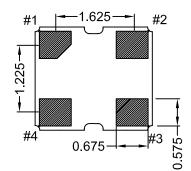
MD1*00) 3-&

3

Solder Pattern



Do not design any conductive path between the pattern



Pin Connection

Pin	Functio n			
#1	Tri-State			
#2	GND			
#3	Output			
#4	Vdc			

Unit in mm 1mm = 0.039 inches

Dynamic Engineers Inc.

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Specifications

Oscillator	Cum	Candition	Value			Heit	Mata
Specification	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Frequency Range	F		1		80	MHz	
Standard Frequencies			12.0, 16.0, 20.0, 24.0, 26.0, 27.0, 38.4, 40.0		MHz		
Output Waveform				CMOS			
Output Level			V _{OH} ≥ 0.9Vcc V _{OL} ≤ 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%		+3.3		V	
Supply Current				<15		mA	
Frequency Stability							
Frequency Stability vs. Temperature Tolerance Aging Supply and Load Variation			±25		±50	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		

Ordering Codes

Model	Frequency in MHz (up to 4 digits)	Operating Temperature	Frequency Stability
XO2520Z3	xx.yyyy	w	Z

Example:XO2520Z3-26.0000-2-2 has the following specifications

Operating Frequency = 26.0000 MHzOperating Temperature = -40°C to $+85^{\circ}\text{C}$ Frequency Stability = $\pm 50 \text{ ppm}$

Example for IR reflow soldering temperature

