Features and Benefits

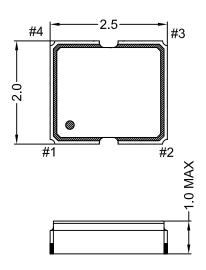
Frequency from 1 MHz up to 80 MHz Sub miniature package: 2.5 x 2.0 x 1.0 mm High shock and vibrational resistivity

Typical Applications
Telecommunications Wireless communications

Description

XO2520ZGoffers 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

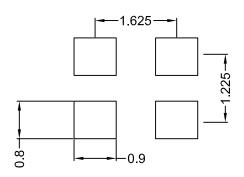


1.625 #2 0.675

Drawing No:

MD1*00) 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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LC&) &\$N& Miniature SMD CMOS Clock Oscillator

Specifications

Oscillator	Sym	Condition	Value			1114	Note
Specification			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%		+2.5		V	
Supply Current				<10		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

Opera	ting 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
XO2520Z2	xx.yyyy	W	Z

Example:XO2520Z2-26.0000-2-2 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

