Features and Benefits

Frequency from 32.768 KHz up to 133 MHz Miniature package: 3.2 x 2.5 x 1.2 mm High shock and vibration resistant

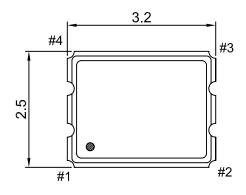
Typical ApplicationsTelecommunications

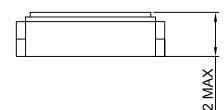
Wireless communications

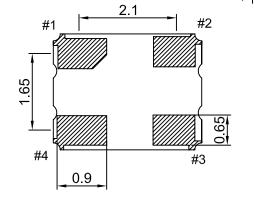
Description

XO3225ZG offers wide frequency range, operating temperature and frequency stability options, along withresistant to high shock and vibration, all in a miniature package, ideal for various telecommunication and wireless communication applications.

Mechanical Drawing & Pin Connections



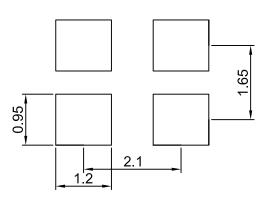




Drawing No:

MD160027-2

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	Sym	Condition	Value		11	Mata	
Specification			Min.	Тур.	Max.	Unit	Note
Frequency Range	F		32.768 KHz to 133 MHz		MHz		
Standard Frequencies			32.768 KHz, 2.0, 4.0, 12.0, 16.0, 20.0 24.0, 32.0, 75.0, 125.0		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				<30		mA	
Frequency Stability						,	
Frequency Stability vs. Temperature Tolerance Aging			±10		±50	ppm	
Supply and Load Variation							
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	±20	
2	-40 to +85	2	±50	

Ordering Codes

Model	Frequency in MHz (up to 4 digits)	Operating Temperature	Frequency Stability
XO3225Z2	xx.yyyy	W	Z

Example:XO3225Z2-125.0000-2-2 has the following specifications

Operating Frequency = 125.0000 MHzOperating Temperature = -40°C to $+85^{\circ}\text{C}$ Frequency Stability = $\pm 50 \text{ ppm}$

Example for IR reflow soldering temperature

