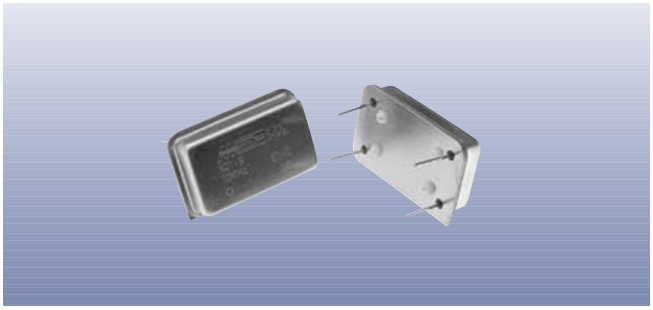
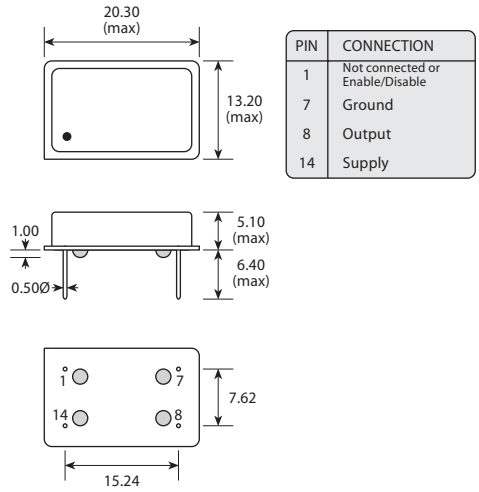
5V Oscillator Mil Temp

XO1 & XO1T





PIN	CONNECTION
1	Not connected or Enable/Disable
7	Ground
8	Output
14	Supply

Scale 1:1

Features

- **Military temperature range option**
- **Frequencies down to 2.0kHz**
- **Excellent shock resistance**
- **Enable / disable tristate option**

Standard Frequencies

Frequencies in MHz		
10.0000	12.2880	18.4320
10.1500	12.8000	19.2000
10.2300	13.0000	19.6608
10.2400	14.7456	20.0000
11.0592	16.0000	
12.0000	16.3840	

Binary divisions of these frequencies also available.
Other frequencies may be available on request. Please consult our sales office.

Enable / Disable Function

Input (pin 1)	Output (pin 8)
Open	Enabled
'1' level	Enabled
'0' level	High Impedance

Specifications

XO1: Standard stability option

XO1T: Tight stability option

Parameters	Product		Option Codes
	XO1	XO1T	
Frequency range: 2.0kHz ~ 20.0MHz	■	■	
Frequency stability* (max):			
±50ppm over 0 to +70°C	□		A
±80ppm over -40 to +85°C	□		B
±100ppm over -55 to +125°C	□		C
±20ppm over 0 to +70°C		□	A
±30ppm over -40 to +85°C		□	B
±50ppm over -55 to +125°C		□	C
Operable temperature range: -55 to +125°C	■	■	
Storage temperature range: -65 to +125°C	■	■	
Supply voltage (V_{DD}): +5.0V (±10%)	■	■	
Supply current (max): 15mA	■	■	
Driving ability: CMOS / 10 LSTTL	■	■	
Logic levels: '0' level = 0.4V max '1' level = 90% V_{DD} min	■	■	
Start up time: 5ms max	■	■	
Waveform symmetry: 40:60 max @ 50%V_{DD}	■	■	
Rise / fall times: 7ns max	■	■	
Enable / disable function:			
None (pin 1 NC)	■	■	
Tristate (control via pin 1)	□	□	E
Shock resistance: 5,000G, 0.3ms, ½ sine	■	■	
Vibration resistance: 10G / 10 ~ 2,000Hz	■	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

* Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and ageing over 10 years.

Ordering Information

Product + option codes + frequency
eg: **XO1/A 10.0MHz** ±50ppm 0+70°C
XO1T/CE 20.0MHz ±50ppm -55+125°C with enable / disable
Option code X (eg XO1/X) denotes a custom specification.

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