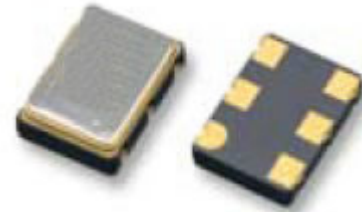


## Features

Standard 7x5x1.5mm ceramic 6-pad  
 Low phase jitter ( 0.7 ps max. )  
 Output frequency up to 320 MHz  
 Complementary Outputs

## Part Picture



## Typical Applications

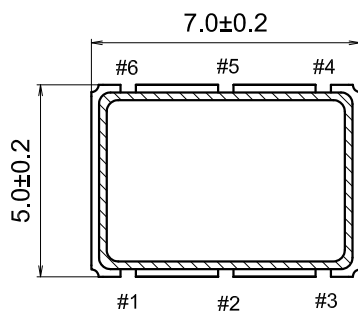
WLAN / WiMAX / WIFI  
 SONET / SDH / ATM  
 10 Gigabit Ethernet, Fiber Channel  
 xDSL

## Description

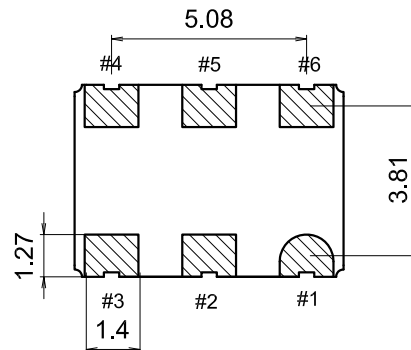
The XO3001 family offers ultra-low jitter PECL outputs required of ever demanding data communications protocols around the world.

## Mechanical Drawing and PIN Connections

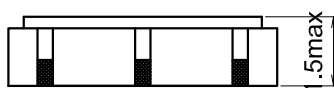
[ TOP VIEW ]



[ BOTTOM VIEW ]



[ SIDE VIEW ]



Pad	Function	
#1	NC	Tri-State
#2	Tri-State	NC
#3	GND	
#4	Output	
#5	Comp.Output	
#6	Vcc	

## Specification

XO Specification	Sym.	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
<b>Operational Frequency Range</b>		F <sub>0</sub>		25.00		MHz	
LVPECL	H-level voltage	V <sub>H</sub>	2.275				
	L-level voltage	V <sub>L</sub>			1.680		
	Rise & Fall time						
<b>Power supply</b>							
Voltage	V <sub>cc</sub>		3.135	3.300	3.465	V	2.5V option available
Current Consumption	I <sub>cc</sub>	19.44MHz ≤ F <sub>0</sub> < 160MHz 160 MHz ≤ F <sub>0</sub> < 250MHz 250 MHz ≤ F <sub>0</sub> ≤ 320MHz			75 100 100	mA	PECL
		19.44MHz ≤ F <sub>0</sub> < 160MHz 160 MHz ≤ F <sub>0</sub> < 250MHz 250 MHz ≤ F <sub>0</sub> ≤ 320MHz			50 50 65		LVDS
Tri-state Enable/Disable		Outputs Active	0.75* V <sub>cc</sub>				The customer chooses either Pin 1 or Pin 2 for Tri-state
Pin 1 or Pin 2		Outputs NOT Active			0.15* V <sub>cc</sub>		
<b>Frequency stability</b>							
VS. Temperature		-40 °C to +85 °C, ref 25 °C	-20.0		+20.0	ppm	
Integrated phase jitter 12Khz to 20Mhz		F <sub>0</sub> ≤ 100MHz			0.7	ps	
		100 < F <sub>0</sub> ≤ 125MHz			0.5		
		F <sub>0</sub> > 125MHz			0.3		
Aging	Per Year	Projected yearly aging after 30days operation	-3.0		+3.0	ppm	
<b>Environmental, mechanical conditions</b>							
Operating temperature range		<b>-40 °C to +85 °C maximum range available</b>					
Storage temperature range		<b>-55 °C to 125 °C</b>					