Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

TCXO7501S_series
7.0 x 5.0 mm
SMD High Precision Voltage Controlled TCXO

Features and Benefits

5MHz--52MHz Frequency range
3.3V and 5.0V Supply voltage
CMOS and Clipped Sinewave Output waveform
±0.28ppm Stability Vs -40C -- +85C
7.0x5.0mm Size
5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25MHz for CMOS
8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25MHz for Clipped Sinewave

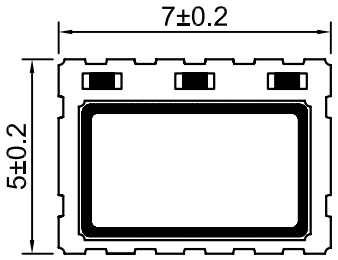
Typical Applications

Femtocell, Base Stations
WLAN / WiMAX / WiFi, Wireless Communications
Mobile Phone

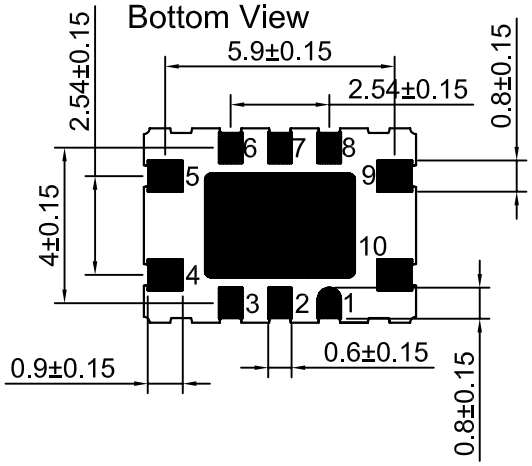
Mechanical Drawing & Pin Connections

Drawing No: MD150015-1

Top View



Bottom View

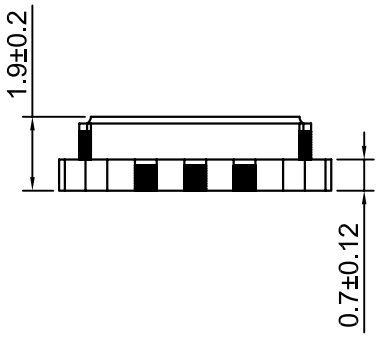


Pin Function

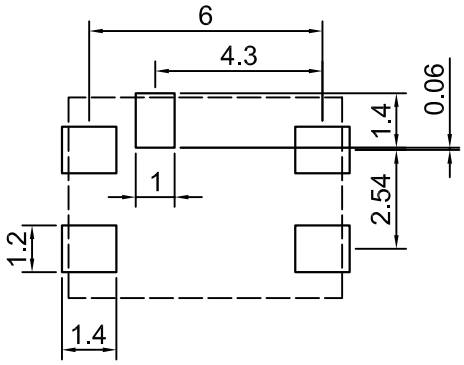
#1	NC
#2	NC
#3	NC
#4	GND
#5	Output
#6	NC
#7	NC
#8	Tri-State Control
#9	VDD
#10	VCON

Unit in mm
1mm = 0.0394 inches

Side View



Recommended Soldering Pattern



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Specifications

Specification	Conditon	5.0V		3.3V		Unit
		Min.	Max.	Min.	Max.	
Supply Voltage Variation(VDD)	V_{DD}±5%	4.75	5.25	3.135	3.465	V
Frequency Range		5	52	5	52	MHz
Standard Frequency	For CMOS	5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25				MHz
	For Clipped Sinewave	8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25				
Frequency Tolerance			±2.0		±2.0	ppm
Frequency Stability						
Vs Supply Voltage	±5% Change		±0.5		±0.5	ppm
Vs Load	±10% Change		±0.2		±0.2	ppm
Vs Aging			±1.0		±1.0	ppm
Supply Current	CMOS	-	6	-	6	mA
	Clipped Sinewave	-	3.5	-	3.5	
Output Level(CMOS)	Output High	90%VDD	-	90%VDD	-	V
	Output Low	-	10%VDD	-	10%VDD	
	Duty	45	55	45	55	%
Output Level(Clipped Sinewave)		0.8		0.8		Vp-p
Load(CMOS)		15		15		pF
Load(Clipped Sinewave)		10kohm//10pf		10kohm//10pf		
Control Voltage Range(VCTCXO)		0.5	2.5	0.5	2.5	V
Pulling Range(VCTCXO)		±5	±12	±5	±12	ppm
Vc Input Impedance(VCTCXO)		100		100		kohm
Phase Noise@19.2MHz						
100Hz		-120		-120		dBc/Hz
1KHz		-140		-140		
10KHz		-148		-148		
Start Time		-	2	-	2	mSec
Tri-State	Enable	3.5	-	2.31	-	V
	Disable	-	1.5	-	0.99	
Storage Temperature		-55	-125	-55	-125	℃

Frequency Stability vs. Temperature

	±0.05PPM	±0.1PPM	±0.14PPM	±0.28PPM	±0.37PPM	±0.5PPM
-10°C to +60°C	Available	Available	Available	Available	Available	Available
-20°C to +70°C	Conditional	Available	Available	Available	Available	Available
-40°C to +85°C	Not Available	Not Available	Not Available	Available	Available	Available

Note: not all combination of options are available. Other specifications may be available upon request.