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

TCXO7500AO-16.384MHz-A
Good Frequency Stability SMD TCXO

Features and Benefits

16.384MHz Frequency
3.3V Supply voltage
CMOS Output waveform
±1.0ppm Stability Vs -40°C to +85°C
7x5mm Size

Typical Applications

SATCOM System
Cellular Base Stations
Radar Applications

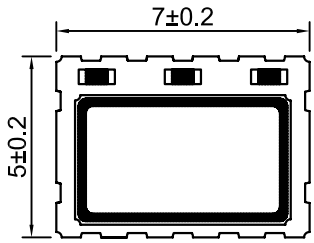
Description

TCXO7500AO-16.384MHz-A is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short term stability. These characteristics make it an excellent choice for timing applications.

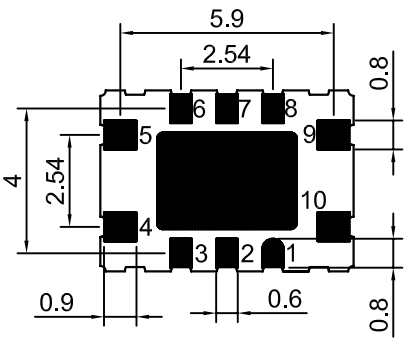
Mechanical Drawing & Pin Connections

Drawing No: MD150015-2

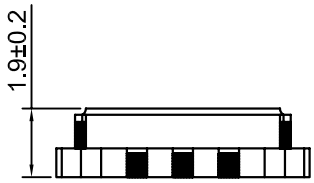
Top View



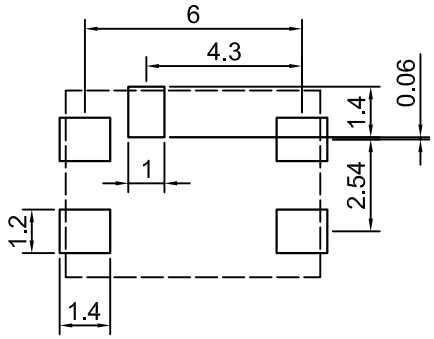
Bottom View



Side View



Recommended Soldering Pattern



Pin Function

#1	NC
#2	NC
#3	NC
#4	GND
#5	Output
#6	NC
#7	NC
#8	Tri-State Control
#9	VDD
#10	N.C. or GND

Unit in mm
1mm = 0.0394 inches

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			16.384		MHz	
RF Output							
Signal Waveform				CMOS			
Load	R_L			15pf			
H-Level Voltage	V_H		2.97			V	
L- Level Voltage	V_L				0.33	V	
Linearity					10	%	
Duty Cycle			45		55	%	
Rise and fall times		10% to 90% and 90% to 10%			6	nS	
Start up time					2	mS	
Power Supply							
Supply Voltage	V_{cc}	±10%		3.3		V	
Current					6	mA	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C		±1.0		ppm	reference to 25°C
Nominal Frequency Tolerance		25°C±3°C			±1.0	ppm	
Versus supply voltage	V_S	±5% change		±0.5		ppm	
Aging 1st Year				±1.0		ppm	
Tri-State Function			PIN 8: 2.31 V min, PIN 5: Output Active; PIN 8: 1.99 V max, PIN 5: Ouput High Impedance				
Environmental,Mechanical Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-40°C to +85°C						