TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

#### TCXO7500S-25.6MHz-B-V

High Performance SMD TCXO

#### **Features and Benefits**

25.6MHz Clipped Sine wave output Operating temperature -40°C to +85°C 3.3V supply, 6mA maximum current Less than +/-0.5ppm first year Less than +/-3ppm over 10years

#### **Typical Applications**

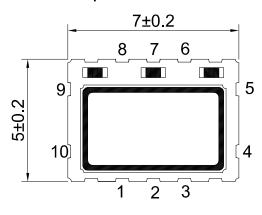
Mobile SATCOM Mobile Radio Harsh Environments

#### **Mechanical Drawing & Pin Connections**

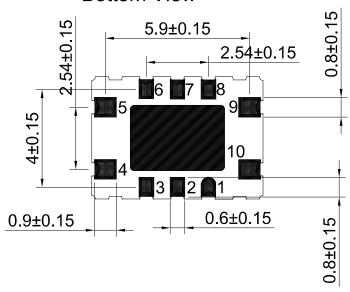
**Drawing No:** 

MD150015-3

## **Top View**



## **Bottom View**



## Side View



Unit: mm

1mm=0.0394inch

#### Pin Function

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



# Dynamic Engineers Inc.

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## TCXO7500S-25.6MHz-B-V High Performance SMD TCXO

## **Specifications**

Oscillator		Sym	Condition	Value			1.11.24			
Specification	Min.			Typ.	Max.	Unit	Note			
Nominal Frequer	ісу				25.6		MHz			
Nominal Frequer	ncy Tolerance		At +25°C initial	-0.5		+0.5	ppm			
RF Output										
Waveform :				Clipped Sine Wave						
Output Level				1.0	' '		Vp-p			
Output Load Cap	acitance		Operating range		10K//10pF		K//pF			
Start Time						2.0	ms			
Frequency cont	rol									
Control Voltage Range		Vcon		0.3	1.65	3.0	V			
Linearity						10	%			
VAFC Input Impe	edance			100			KOhm			
Pulling Range			Vcon=0.3V	5		12	ppm			
			Vcon =3.0V	-12		-5	ppm			
Power Supply										
Supply Voltage		V <sub>cc</sub>		3.13	3.3	3.47	V			
Supply Current			At max. supply voltage			8.0	mA			
Frequency Stab	ility									
			Ref. to the midpoint							
Vs. Temperature			between minimum and	-0.2	+0.2	ppm				
			maximum frequency value.							
Vs. Supply Voltage			Supply voltage varied at +/-	-0.1		+0.1	ppm			
			5% at 25°C				PPIII			
vs. Load	T =-		+/-5% load change	-0.1		+0.1	ppm			
Aging	First year					+/-0.5	ppm			
	3 years					+/-1	ppm			
	10 years					+/-3	ppm			
SSB Phase noise			10Hz			-80				
			100 Hz			-110	".			
			1 KHz			-135	dBc/Hz			
			10 KHz			-145				
			100 KHz			-150				
Environmental (		55°O to 1	405°0							
Storage tempera										
Operating temperature range Thermal Shock		40°C to 85°C								
		MIL-STD-883 1010 Condition B; JESD22-A104 Condition B, -55°C, 125 °C; soak time is 10 mins, with total 200 cycles								
Mechanical Shock		MIL-STD-883 2002 Condition B; JESD22-B104 Condition B, 1500G, half-sine, 0.5ms, each axis for 3								
		times.								
Vibration		MIL-STD-883 2007 Condition A; JESD22-B103 Condition 1,10~2000Hz, 1.52mm, 20G, each axis for 4								
			hrs							