#### TCXO7500BT-16.8MHz-A-V

High reliable, High precision TCXO

## **Features and Benefits**

Frequency range: 16.8MHz Supply voltage: 3.3V

Steady current: 10mA /Max Output waveform: LVCMOS

Frequency stability vs. operating temperature: ±0.5PPM

Aging: ±1.0PPM per year

Operating temperature: -40°C to +85°C

Size: 7x5x1.75mm

## **Typical Applications**

UHF Synthesizers SATCOM System Portable Microwave Applications

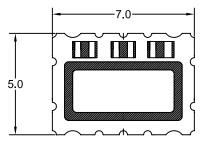
## **Description**

TCXO7500BT-16.8MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability performance.

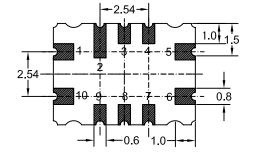
## **Mechanical Drawing & Pin Connections**

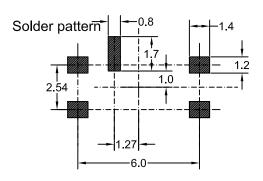
**Drawing No:** 

MD150075-8









Pin Function

#1 Control Voltage

#5 GND

#6 Output

#9 Tri-state or NC

#10 Vcc

Do not connect #2, #3, #4, #7, #8

Unit in mm 1mm = 0.0394 inch



# Dynamic Engineers Inc.

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

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## **Specifications**

Oscillator Specification	Sym	Condition	Value			1 limits	Note
		Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency	F <sub>nom</sub>			16.8		MHz	
Output			(LV)CMOS				
Output Level			V <sub>OH</sub> > 0.9 x Vcc V <sub>OL</sub> < 0.1 x Vcc				
Output load				V <sub>OL</sub> \ 0.1	15	pF	
Power Supply					10	Pi Pi	
Voltage	V <sub>cc</sub>	±5%		3.3		V	
Current Consumption			2		10	mA	
Frequency Control							
Control voltage range	V <sub>c</sub>		0.5		2.5	V	
Tuning range					±5	ppm	Tuning Slope Positive
Control voltage input impedance			100			kohm	
Tri-state function			pin9 high or open pin6 oscillation pin9 low or GND pin6 high impedance				
Frequency Stability					J P		
Versus temperature		-40°C to +85°C, ref to (fmax+fmin)/2			±0.5	ppm	
Versus voltage		±5%			±0.1	ppm	
Versus load		±5%			±0.1	ppm	
Tolerance at 25°C			0		+1.0	ppm	
First Year Aging		@+40°C			±1.0	ppm	
G-sensitivity		Per axis		2.0		ppb/g	
Environmental Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +						
Reflow Profiles	≤ 260°C over 10 sec. Max. as per IPC/JEDEC J-STD-020C						
Moisture sensitivity	Level 1(un	ılimited)					