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

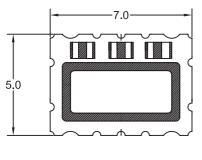
Description

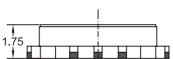
TCXO7500BT-16.8MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability performance.

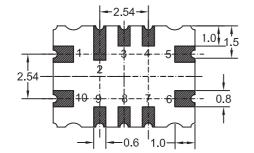
Mechanical Drawing & Pin Connections

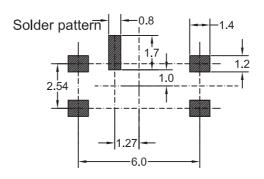
Drawing No:

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	Sum	Condition	Value			Unit	Note
	Sym	Condition	Min.	Тур.	Max.		Note
Operational Frequency	F _{nom}			16.8		MHz	
Output				(LV)CMOS			
Output Level				$V_{OH} > 0.9 \text{ x Vcc}$			
'				V _{OL} < 0.1 x Vcc			
Output load					15	pF	
Power Supply	1 1/	. 50/	<u> </u>				
Voltage	V _{cc}	±5%		3.3		V	
Current Consumption			2		10	mA	
Frequency Control							
Control voltage range	V _c		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							
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/q	
Environmental Conditions	,		•	•			
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +105℃						
Reflow Profiles	≤ 260°C over 10 sec. Max. as per IPC/JEDEC J-STD-020C						
Moisture sensitivity	Level 1(unlimited)						