

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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Features and Benefits

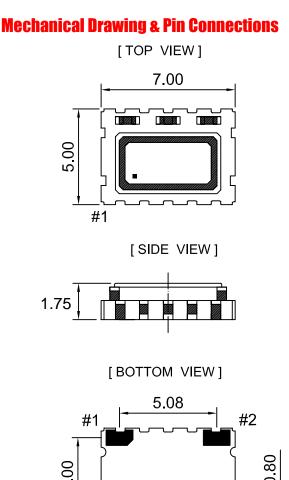
Frequency range: 25MHz Supply voltage: 3.3V Steady current: 5mA /Max Output waveform: CMOS Frequency stability vs. operating temperature: ±0.28PPM Aging: ±1.0PPM per year Operating temperature: -40°C to +85°C Size: 7x5x1.75mm

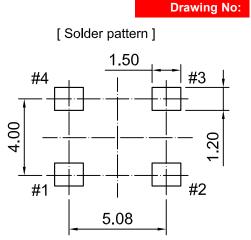
Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

Description

TCXO7500BT-STR3-25MHz-A offers wide temperature operation from -40°C to +85°C with outstanding frequency stability performance.





PIN	FUNCTION		
#1	GND or N.C.		
#2	GND		
#3	RF output		
#4	Vcc		
	RF output		

Unit in mm 1mm = 0.0394 inches

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#4

Rev. 1

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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside, such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sym Condition	Value			11.5			
Specification		Condition	Min.	Тур.	Max.	Unit	Note	
Operational Frequency	Fnom			25		MHz		
Output				CMOS				
Output Level			V _{OH} > 0.9 x Vcc					
•				V _{OL} < 0.1 x Vcc				
Output load					15	pF		
Power Supply	- i i		0					
Voltage	V _{cc}	±5%		3.3		V		
Current Consumption					5	mA		
Frequency Stability								
Overall		Including, frequency stability vs. temperature, tolerance @+25°C, aging 20 years, supply & load variation			±4.6	ppm		
Versus temperature		-40°C to +85°C, ref to (fmax+fmin)/2			±0.28	ppm		
Holdover stability		Constant temperature, supply and load change of ±5 % and aging over 24 hours			±0.37	ppm		
Tolerance at +25°C			0		+1.0	ppm		
First Year Aging		@+40°C			±1.0	ppm		
		10Hz		-90		dBc/Hz		
		100Hz		-125		dBc/Hz		
Phase noise (25MHz)		1KHz		-140		dBc/Hz		
		10KHz		-150		dBc/Hz		
		100KHz		-154		dBc/Hz		
Environmental Conditions								
Operating temperature range	-40°C to +85°C							
torage temperature range -55°C to +105°C								
Reflow Profiles	≤ 260°C over 10 sec. Max. as per IPC/JEDEC J-STD-020C							
Anisture sensitivity Level 1(unlimited)								

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