

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 59.3MHz Supply voltage: 3.3V Current: 7mA Max. Output waveform: CMOS Frequency stability vs. temperature: ±1.0PPM Aging: ±1PPM first year Phase noise: -154dBc/Hz@100KHz: Operating temperature: -40°C to +85°C Size: 5.2x3.4x1.7 mm

Typical Applications

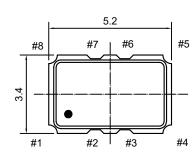
Portable Wireless Communications Mobile Test Equipment Radio SATCOM System

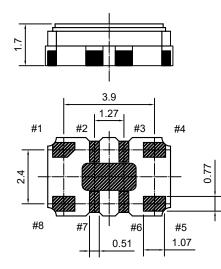
Description

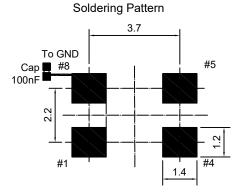
TCXO5300BT-59.3MHz-A is the low phase noise and small size TCXO. It can be widely used in the portable communication devise.

Mechanical Drawing & Pin Connections

Drawing No: MD150017-11







Pin Function

#1	N.C. or GND				
#2	N.C.				
#3	N.C.				
#4	GND				
#5	Output				
#6	N.C.				
#7	N.C.				
#8	Vcc				

Unit in mm 1mm = 0.0394 inches

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Rev. 1

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	0	Operativian	Value			Unit	Note	
Specification Sym	Sym	Condition	Min.	Тур.	Max.			
Operational Frequency	f ₀			59.3		MHz		
RF Output								
Output Waveform				CMOS				
Output Level High			0.9*V _{cc}			V		
Output Level Low					0.1*V _{cc}	V		
Output Load					15	pF		
Start-up Time					10	ms		
Power Supply								
Voltage	V _{cc}	±5%		3.3		V		
Current					7	mA		
Frequency Stability								
Frequency tolerance ex.		@+25°C	0		1.0	nnm		
Factory		_	0		1.0	ppm		
Vs. Temperature		Reference to (FMAX+FMIN)/2			±1.0	ppm		
Vs. Supply Voltage Changes		±5% Referenced to frequency at nominal supply			±0.2	ppm		
Vs. Load Changes		±5% Referenced to frequency at nominal supply			±0.2	ppm		
Vs. Aging@+40°C		1 st year			±1.0	ppm		
G-sensitivity		Peraxis			2.0	ppb/g		
Phase Noise		10 Hz		-82				
		100 Hz		-105				
		1 KHz		-128		dBc/Hz		
		10 KHz		-145				
		100 KHz		-154				
Environmental Condition	IS							
Operating temperature range -40°C to		-40°C to +85°C						
Storage temperature range		-55°C to +105 °C						
Reflow Profiles as per IPC/JEDEC J-STD-020C		≤260°C over10 sec. Max.						

Note: Unless otherwise specified conditions are @+25 °C