

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: 10MHz Supply voltage: 3.3V Current: 7mA Max. Output waveform: Clipped Sine Frequency stability vs. temperature: ±0.25PPM Aging: ±1PPM per year Phase noise: -152dBc/Hz@100KHz: Operating temperature: -20°C to +70°C Size: 5x3.2x1.7 mm

Typical Applications

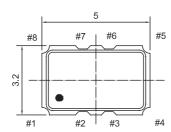
Portable Wireless Communications Mobile Test Equipment Radio SATCOM System

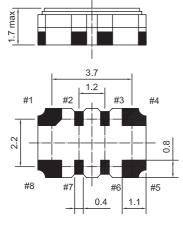
Description

TCXO5300BT-HS-10MHz_CS-1432 is the high stability and low phase noise small size TCXO. It can be widely used in the portable communication devise.

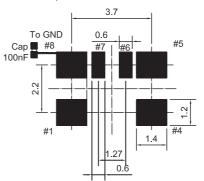
Mechanical Drawing & Pin Connections







Unit in mm 1mm = 0.0394 inches



Pin Function

Footprint

1 11 1 4	notion				
#1	Vc(EFC) *				
#2	N.C. or GND				
#3	N.C. or GND				
#4	GND				
#5	Output				
#6	Tri-state or N.C.				
#7	N.C.				
#8	Vcc				
*Eor oon	tral valtage version				

*For control voltage version

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Specifications

Oscillator	•	O and Hill and	Value			Unit	Note
Specification	Sym	Condition	Min.	Тур.	Max.		
Operational Frequency	f ₀			10		MHz	
RF Output							
Output Waveform			Clipped sine				
Output Level			0.8			Vp-p	
Output Load			10K//10pF				
Tri-state function		PIN#6 high or open	Pin#5 oscillation				
		PIN#6 low or GND	Pin#5 high impedance				
Power Supply							
Voltage	Vcc	±5%		3.3		V	
Current					7	mA	
Frequency Control							
Control Voltage Range			0.5	1.5	2.5	V	
Tuning Range		Positive slope	±5			ppm	
EFC input impedance			100			Kohm	
Frequency Stability							
Tolerance		@+25°C			1.0	ppm	
Versus Temperature							
Reference to					±0.25	ppm	
(FMAX+FMIN)/2							
Versus Aging@+40°C		1 st year			±1.0	ppm	
G-sensitivity		Per axis			2.0	ppb/g	
Phase noise (typ.)		10 Hz		-83		dBc/Hz	
		100 Hz		-110			
		1 KHz		-135			For 40MHz
		10 KHz		-148			
		100 KHz		-152			
Environmental Condition	າຣ						
Operating temperature rar	nge	-20°C to +70 °C					
Storage temperature range	e	-55°C to +110 °C					
Reflow Profiles as per IPC/JEDEC J-STD-020C		≤260°C over 10 sec. Max					

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

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