TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO5300BT-HS-10MHz CS-% &&

Features and Benefits

Frequency range: 10MHz Supply voltage: 2.8V Current: 7mA Max.

Output waveform: Clipped Sine

Frequency stability vs. temperature: ±0.2PPM

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

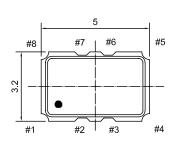
Description

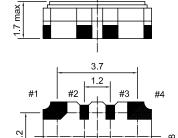
TCXO5300BT-HS-10MHz_CS-1322 is the high stability and low phase noise small size TCXO. It can be widely used in the portable communication devise.

Mechanical Drawing & Pin Connections

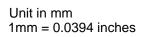
Drawing No:

MD150017-8



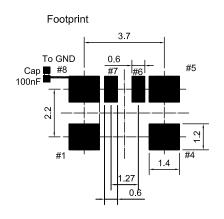


#8



#6

#5



Pin Function

#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.		
#3 N.C. or GND #4 GND #5 Output #6 Tri-state or N.C. #7 N.C.	#1	Vc(EFC) *
#4 GND #5 Output #6 Tri-state or N.C. #7 N.C.	#2	N.C. or GND
#5 Output #6 Tri-state or N.C. #7 N.C.	#3	N.C. or GND
#6 Tri-state or N.C. #7 N.C.	#4	GND
#7 N.C.	#5	Output
#1	#6	Tri-state or N.C.
#8 Vcc	#7	N.C.
	#8	Vcc

^{*}For control voltage version

Dynamic Engineers Inc.

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

TCXO5300BT-HS-10MHz_CS-% &&

High Stability and Low Phase Noise TCXO

Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			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	V_{cc}	±5%		2.8		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					±0.2	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	For 40MHz
		100 Hz		-110			
		1 KHz		-135			
		10 KHz		-148			
		100 KHz		-152			
Environmental Condition	ıs						
Operating temperature ran		-20°C to +70 °C					
Storage temperature range	Э	-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