TCXO5300BT-HS-10MHz CS-&432

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: -40°C to +85°C

Size: 5x3.2x1.7 mm

Typical Applications

Portable Wireless Communications Mobile Test Equipment Radio SATCOM System

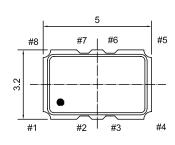
Description

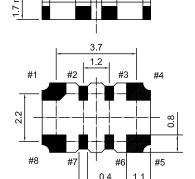
TCXO5300BT-HS-10MHz_CS-2432 is the high stability and low phase noise small size TCXO. It can be widely used in the portable communication devise.

Mechanical Drawing & Pin Connections

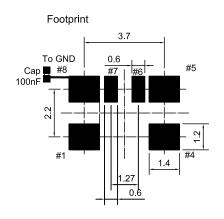
Drawing No:

MD150017-8





Unit in mm 1mm = 0.0394 inches



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.
#8	Vcc

^{*}For control voltage version

TCXO5300BT-HS-10MHz_CS-&432

High Stability and Low Phase Noise TCXO

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note	
			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%		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	For 40MHz	
		100 Hz		-110				
		1 KHz		-135				
		10 KHz		-148				
		100 KHz		-152				
Environmental Condition	ns							
Operating temperature range		-40°C to +85 °C						
Storage temperature range		-55°C to +110 °C						
Reflow Profiles as per IPC/JEDEC J-STD-020C		≤260°C over 10 sec. Max.						
Note: Unless otherwise s	necified o	conditions are @+25 °C						

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