TCXO5300Z-10.23MHz-A

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

Features and Benefits

Frequency range: 10.23MHz

Supply voltage: 3.3V Current: 3mA Max. Output waveform: CMOS

Frequency stability vs. temperature: ±0.5PPM

Aging: ±1PPM per year

Phase noise: -155dBc/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

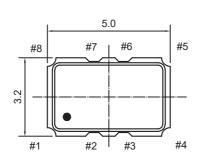
Description

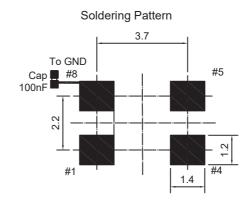
TCXO5300Z-10.23MHz-A is the high stability and low phase noise small size TCXO. It can be widely used in the portable communication devise.

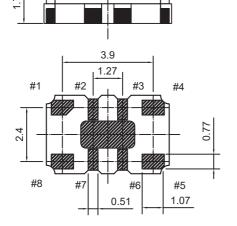
Mechanical Drawing & Pin Connections

Drawing No:

MD150017-11







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

Dynamic Engineers Inc.

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TCXO5300Z-10.23MHz-A High Stability and Low Phase Noise TCXO

Specifications

Oscillator	0	O a martini a m	Value			Unit	Note		
Specification	Sym	Condition	Min.	Typ.	Max.				
Operational Frequency	f ₀			10.23		MHz			
RF Output									
Output Waveform				CMOS					
Output High Level	Vон		0.9Vcc			V			
Output Low Level	Vol				0.1Vcc	V			
Output Load					15	pF			
Power Supply									
Voltage	V_{cc}			3.3		V			
Current					3	mA			
Starup Time					2	mS			
Frequency Stability									
Frequency tolerance ex. factory		@+25°C			1.0	ppm			
Versus Temperature									
Reference to		-40°C to +85 °C			±0.5	ppm			
(FMAX+FMIN)/2		40 0 10 103 0			±0.0	ррпп			
Versus Supply voltage		referenced to frequency			.0.4				
changes ±5%		at nominal supply			±0.1	ppm			
Versus Load voltage		referenced to frequency			±0.1	nnm			
changes ±5%		at nominal load			±0.1	ppm			
Versus Aging@+40°C		1 st year			±1.0	ppm			
G-sensitivity		Per axis			1.8	ppb/g			
Phase noise (typ.)		10 Hz		-85		dBc/Hz	For 10.23MHz		
		100 Hz		-115					
		1 KHz		-135					
		10 KHz		-150					
		100 KHz		-155					
		1000 KHz		-157					
Environmental Condition	าร								
Operating temperature ran		-40°C to +85 °C							
Storage temperature range	е	-55°C to +105 °C							
Reflow Profiles as per		≤260°C over 10 sec. Max.	<260°C over 10 and May						
IPC/JEDEC J-STD-020C		=200 C Over 10 Sec. Max.							
Moisture sensitivity		Level 1 (unlimited)							
Note: Unless otherwise sp	ecified o	conditions are @+25 °C							

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