TCXO5300Z-10.23MHz-A

#### **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

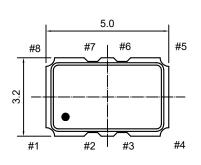
#### **Description**

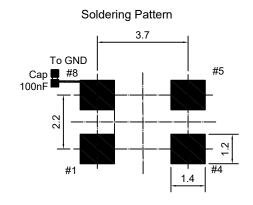
TCXO5300Z-10.23MHz-A is the high stability and low phase noise small size TCXO. It can be widely used in the portable communication devise.

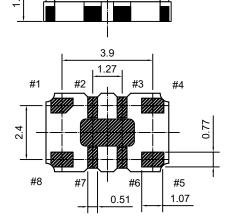
## **Mechanical Drawing & Pin Connections**

**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 Pã @Ŵœàặãĉ Áæj åÁŠ[¸ÁÚ@æ^ÁÞ[ã^ÁVÔÝUÁ

## **Specifications**

Oscillator Specification	C	Con dition	Value			Unit	Note
	Sym	Condition	Min.	Тур.	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.		@+25°C			1.0	ppm	
factory		@+23 C			1.0	ррпі	
Versus Temperature							
Reference to		-40°C to +85 °C			±0.5	ppm	
(FMAX+FMIN)/2							
Versus Supply voltage		referenced to frequency			±0.1	ppm	
changes ±5%		at nominal supply				PPIII	
Versus Load voltage		referenced to frequency			±0.1	ppm	
changes ±5%		at nominal load					
Versus Aging@+40°C		1 <sup>st</sup> 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			
<b>Environmental Condition</b>							
Operating temperature ran		-40°C to +85 °C					
Storage temperature range	9	-55°C to +105 °C					
Reflow Profiles as per		≤260°C over 10 sec. Max.					
IPC/JEDEC J-STD-020C							
Moisture sensitivity		Level 1 (unlimited)					
Note: Unless otherwise sp	ecified o	conditions are @+25 °C					

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