TCXO914BM-STR3

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

Features and Benefits

Frequency range: 40-150MHz

Supply voltage: 3.3V Steady current: 35mA Max Output waveform: CMOS Holdover: ±0.32PPM

Phase noise@10KHz: -148dBc/Hz Operating temperature: -40°C to +85°C

Size: 14.5x9.6x6.5mm

Typical Applications

Time Synchronization
Microwave Communication
Test & Measurement
Telecom Systems
Satellite Communication

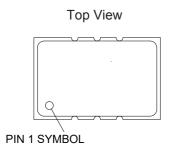
Description

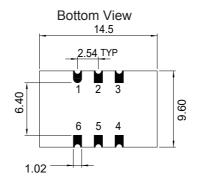
TCXO914BM-STR3 is the high stability stratum3 TCXO. The Holdover can be less than ± 0.32 PPM. It can be widely used in the portable communication devise.

Mechanical Drawing & Pin Connections

Drawing No:

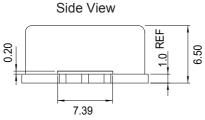
MD220035-1





Recommended Soldering Layout

15.4



7		0.1.	4.0 Fig. 1.0	6.15
	Function			1
	NC/Vcon			
	NC/Tri-State		1.27	
	GND			
	Output			

Keepout

 Pin
 Function

 1
 NC/Vcon

 2
 NC/Tri-State

 3
 GND

 4
 Output

 5
 NC

 6
 Vcc

Unit in mm 1mm = 0.0394 inches

TCXO914BM-STR3

High Stability, Very Low Noise TCXO

Specifications

Oscillator	C	Condition	Value			Unit	Note				
Specification	cation Sym Condition		Min.	Тур.	Max.						
Operational Frequency	f ₀	Standard Frequency: 50M, 92.16M, 98.304M,	40		150	MHz					
Operational Frequency	10	100M, 120MHz	40		150	IVII IZ					
RF Output											
Output Waveform			CMOS								
Load				15		pF					
Output Level High			2.97			V					
Output Level Low					0.33	V					
Duty Cycle			45		55	%					
Rise/Fall Time					3	nSec					
Power Supply											
Voltage	Vcc			3.3		V					
Current		At maximum supply			35	mA					
Current		voltage			33	IIIA					
Frequency Stability											
Overall					±4.6	ppm	Note1				
Holdover		Over 24 Hours			±0.32	ppm					
Initial Tolerance		At 25°C			±1.0	ppm					
		@10Hz			-87						
		@100Hz			-117						
Phase Noise		@1KHz			-141	dDa/Ll=					
		@10KHz			-148	dBc/Hz					
		@100KHz			-155						
		@1MHz			-160						
Environmental Conditio	ns										
Operating temperature range		-40°C to +85°C									
Storage temperature range		-40°C to +105 °C									
		MIL-STD-883 2007 Condition A, JESD22-B103 Condition 1. 10~2000Hz, 1.52mm, 20G,									
Vibration Test		each axis for 4hrs									
Thermal Shock		MIL-STD-883 1010 Condition B, JESD22-A104 Condition B55°C, 125°C; soak time is									
		10 mins, with total 200 cycles									
Mechanical Shock		MIL-STD-883 2002 Condition B, JESD22-B104 Condition B. 1500G, half-sine, 0.5ms,									
			each axis for 3 times								

Note1: Frequency stability includes frequency tolerance@25°C and frequency stability vs. operating temperature range and voltage variance and 20 years aging.