

Dynamic Engineers Inc.

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

TCXO2520S_series
Clipped Sine Wave10 to 52MHz
Temperature Compensated Crystal Oscillator

Features and Benefits

Frequency Range from 10 MHz to 52 MHz 2.5 mm x 2.0 mm ceramic SMD package
Up to ±0.5 ppm (depends on operating frequency and operating temperature)
Clipped Sine Wave outputs
1.8V, 2.5V or 2.8V supply
Low height and light weight
Compatible for automatic assembly

Typical Applications

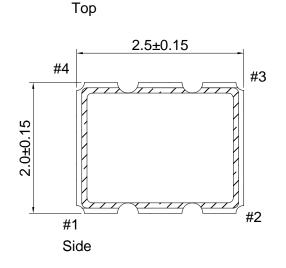
WiMAX, WLAN GPS Mobile phone

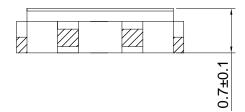
Description

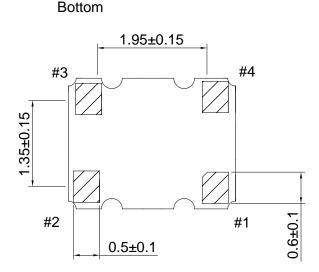
A new series of low height temperature compensated crystal oscillators with the latest low noise integrated circuit topologies.

Mechanical Drawing & Pin Connections

Drawing No:MD160034-1







Pin Connection

Name	Connection
Pin 1	VCON:VC-TCXO GND/NC:TCXO
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VDD

Unit: mm 1mm=0.0394inch



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Specifications

General Specifications							
Parameter	1.8V		2.5V		2.8V		
raiaiiielei		Min.	Max.	Min.	Max.	Min.	Max.
Frequency Ran	ge	10MHz	52MHz	10MHz	52MHz	10MHz	52MHz
Standard Frequ	iency	16.367667MHz, 16.368000MHz, 16.369000MHz, 19.200000MHz, 19.680000MHz, 20.000000MHz, 26.000000MHz, 40.000000MHz, 50.000000MHz, 52.000000MHz					
Frequency Tole (at 25°C, 1 hour		-	±2.0ppm	-	±2.0ppm	-	±2.0ppm
Frequency Stat	oility						
Vs Supply Voltage (±5%) change		-	±0.2ppm	-	±0.2ppm	-	±0.2ppm
Vs Load (±10%) change		-	±0.2ppm	-	±0.2ppm	-	±0.2ppm
Vs Aging (@1 st year)		-	±1.0ppm	-	±1.0ppm	-	±1.0ppm
Supply Voltage (V _{DD}) ±5%	Variation	1.710V	1.890V	2.375V	2.625V	2.660V	2.940V
Supply Current							
10 MHz ≤ Fo ≤ 26 MHz		-	2.0mA	-	2.0mA	-	2.0mA
26 MHz ≤ Fo ≤ 52 MHz		-	2.5mA	-	2.5mA	-	2.5mA
Output Level (C Wave)	Slipped Sine	0.8Vp-p	-	0.8Vp-p	-	0.8Vp-p	-
Load		10KΩ // 10pF					
Control Voltage Range (VCTCXO)		0.3V	1.5V	0.4V	2.4V	0.4V	2.4V
Pulling Range (VCTCXO)		±5.0ppm	-	±5.0ppm	-	±5.0ppm	-
Vc Input Impedance (VCTCXO)		500kΩ	-	500kΩ	-	500kΩ	-
Phase Noise @ 19.2 MHz	100 Hz	-115dBc/Hz					
	1 kHz	-135dBc/Hz					
	10 kHz	-148dBc/Hz					
Start-up Time		2ms max.					
Storage Temp. Range		-40°C to +85°C					

Stability vs. Temperature Range Availability							
	Temperature Range	Temperature Range					
Stability in ppm	-20°C to +70°C	-30°C to +85°C	-40°C to +85°C				
±0.5	Available	Conditional (depends on operating frequency; case by case)	Conditional (depends on operating frequency; case by case)				
±1.0	Available	Available	Conditional (depends on operating frequency; case by case)				
±1.5	Available	Available	Available				
±2.0	Available	Available	Available				
±2.5	Available	Available	Available				

Other customized specifications maybe available. Please contact Dynamic Engineers Inc. for further details.