Features and Benefits

Frequency Range from 10 MHz to 52 MHz 3.2 mm x 2.5 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 3.0V supply
Low height and light weight
Compatible for automatic assembly

Description

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

Typical Applications

WiMAX, WLAN GPS Mobile phone

Mechanical Drawing & Pin Connections

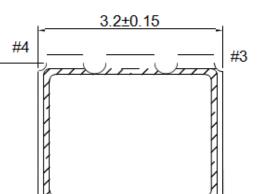
Top

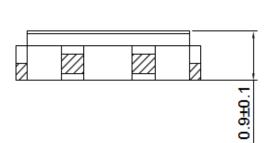
#1

Side

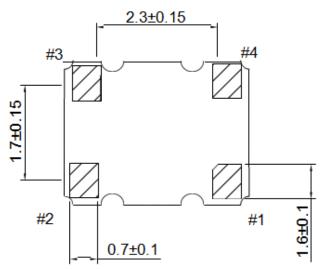
Drawing No:

MD160035-1





Bottom



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

TCXO3225S_series
Clipped Sine Wave10 to 52MHz
Temperature Compensated Crystal Oscillator

Specifications

General Specific	ations								
		1.8V		2.	2.5V		3.0V		
Parameter		Min.	Max.	Min.	Max.	Min.	Max.		
Frequency Rang	je	13MHz	52MHz	10MHz	52MHz	10MHz	52MHz		
Standard Frequency		10.000000MHz, 12.800000MHz, 13.000000MHz, 16.367667MHz, 16.368000MHz, 16.369000MHz, 19.200000MHz, 19.440000MHz, 20.000000MHz, 25.000000MHz, 26.000000MHz, 27.000000MHz, 30.000000MHz, 30.720000MHz, 32.000000MHz 32.000000MHz, 38.400000MHz, 40.000000MHz							
Frequency Toler									
(at 25°C, 1 hour after reflow)		-	±2.0ppm	-	±2.0ppm	-	±2.0ppm		
Frequency Stabi				1	ı		1		
Vs Supply Voltage (±5%) change		2	±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 Variation (V _{DD}) ±5%		1.710V	1.890V	2.375V	2.625V	2.850V	3.150V		
Supply Current	(55)				II.	1			
10 MHz ≤ Fo ≤ 26 MHz		-	2.0mA	-	2.0mA	-	2.0mA		
26 MHz ≤ Fo ≤ 52 MHz		-	2.5mA	-	2.5mA	-	2.5mA		
Output Level (Clipped Sine Wave)		0.8Vp-p	-	0.8Vp-p	-	0.8Vp-p	-		
Load		10KΩ // 10pF							
Control Voltage Range (VCTCXO)		0.3V	1.5V	0.4V	2.4V	0.5V	2.5V		
Pulling Range (VCTCXO)		±5.0ppm	-	±5.0ppm	-	±5.0ppm	-		
Vc Input Impedance (VCTCXO)		500kΩ	-	500kΩ	-	500kΩ	-		
Phase Noise	100 Hz	-115dBc/Hz							
@ 19.2 MHz	1 kHz	-135dBc/Hz							
	10 kHz	-148dBc/Hz							
Start-up Time		2ms max.							
	Storage Temp. Range		-40°C to +85°C						
Stability vs. Tem	nperature Range Ava								
Temperature Range									
Stability in ppm		-20°C to +70°C		-30°C to +85°C		-40°C to +85°C			
±0.5 Availab		Available	ailable		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 may be available. Please contact Dynamic Engineers Inc. for further details.