## **Features and Benefits**

Frequency Range from 10 MHz to 52 MHz 5.0 mm x 3.2 mm ceramic SMD package
Up to ±0.5 ppm (depends on operating frequency and operating temperature)
HCMOS and Clipped Sine Wave(without DC-CUT capacitor) output optional 3.3V or 5.0V supply
Low power consumption
Low height and light weight
Compatible for automatic assembly

#### **Description**

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

#### **Typical Applications**

WiMAX, WLAN Telecommunication Mobile phone

# **Mechanical Drawing & Pin Connections**

Unit:mm 1mm=0.0394inch

[TOP VIEW]

#4

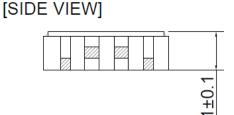
5.0±0.2

#3

70+7

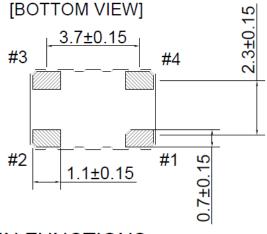
#1

#2



Drawing No:

MD140026-3



# PIN FUNCTIONS

Pin	Funttion			
#1	VCON:VC-TCXO GND/NC:TCXO			
#2	GND			
#3	Output			
#4	VDD			

### **Specifications**

ations						
·	3.3V		5.0V			
Parameter		Max.	Min.		Max.	
e	10MHz	52MHz	10MHz		26MHz	
ency	13.000000MHz, 14.400000MHz, 16.368000MHz, 16.369000MHz, 16.800000MHz, 19.200000MHz, 19.680000MHz, 20.000000MHz, 26.000000MHz					
ance*		. 2 Onnm			. 2 Onnm	
	-	±2.0ppm	-		±2.0ppm	
	-		-		±0.2ppm	
	-		-		-	
	-	• •	-		±0.2ppm	
	-	±1.0ppm	-		±1.0ppm	
<b>Variation</b>	2 97\/	3 63\/	4.75\/		5.25V	
	2.01 V	0.00 v	7.75		0.20 v	
	-		-		1.5mA	
	-	-	-		2.0mA	
2 MHz	-	2.5mA	-		-	
2 MHz	-	6.0	-		-	
	0.8\/n-n	_	0.8\/n-r	,	_	
	0.0 γ ρ		0.0 V P F	,		
	2.97V	-	_		-	
c "0")	-					
	45%					
ie Wave)						
	15pF			-	•	
Range	0.5V	2 5\/	0.5\/		2.5V	
		2.5 V			2.5 v	
		-			-	
, ,	100kΩ	- 100kΩ -			-	
100 Hz	-115dBc/Hz					
1 kHz	-135dBc/Hz					
10 kHz	-148dBc/Hz					
	2ms max.					
Range	-55°C to +125°C					
	Stability vs. Tempe	rature Range Availa	bility			
	Temperature Range	<u> </u>				
	-20°C to +70°C		-30°C to +85°C		-40°C to +85°C	
					Conditional (depends on	
e < 10ppm	Available				operating frequency; case	
		by case)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	by cas		
available)						
				Condit	tional (depends on	
	Available	Available			tional (depends on ting frequency; case	
	1 kHz	Min.   Min.	Min.   Max.     S2MHz     Min.   Max.     Min.   Max.     13.00000MHz, 14.400000MHz, 16.3680     19.200000MHz, 19.680000MHz,     Mity   Expression     Mity   Expression     Mity   Expression     Mity   Expression     Mity   Expression     Min.   Max.     Max.     15.680000MHz, 14.400000MHz, 16.3680     Ho. 2.0ppm     Ho. 2.0ppm     Ho. 2.2ppm     Ho. 2ppm     Ho	Sand	3.3V   5.6   Min.   Min.   Min.   Min.   Min.   10MHz   13.00000MHz, 14.40000MHz, 16.368000MHz, 16.369000MHz   19.200000MHz, 19.680000MHz, 20.000000MHz, 26.0   20.00000MHz, 26.0   20.00000MHz, 26.0   20.00000MHz, 26.0   20.00000MHz, 26.0   20.00000Mz, 20.00000MHz, 26.0   20.00000Mz, 20.00000MHz, 26.0   20.00000Mz, 20.00000Mz, 20.00000MHz, 26.0   20.00000Mz, 20.00000Mz, 20.0000Mz, 20.000Mz, 20.0000Mz, 20.0000Mz, 20.0000Mz, 20.	

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