



Features and Benefits

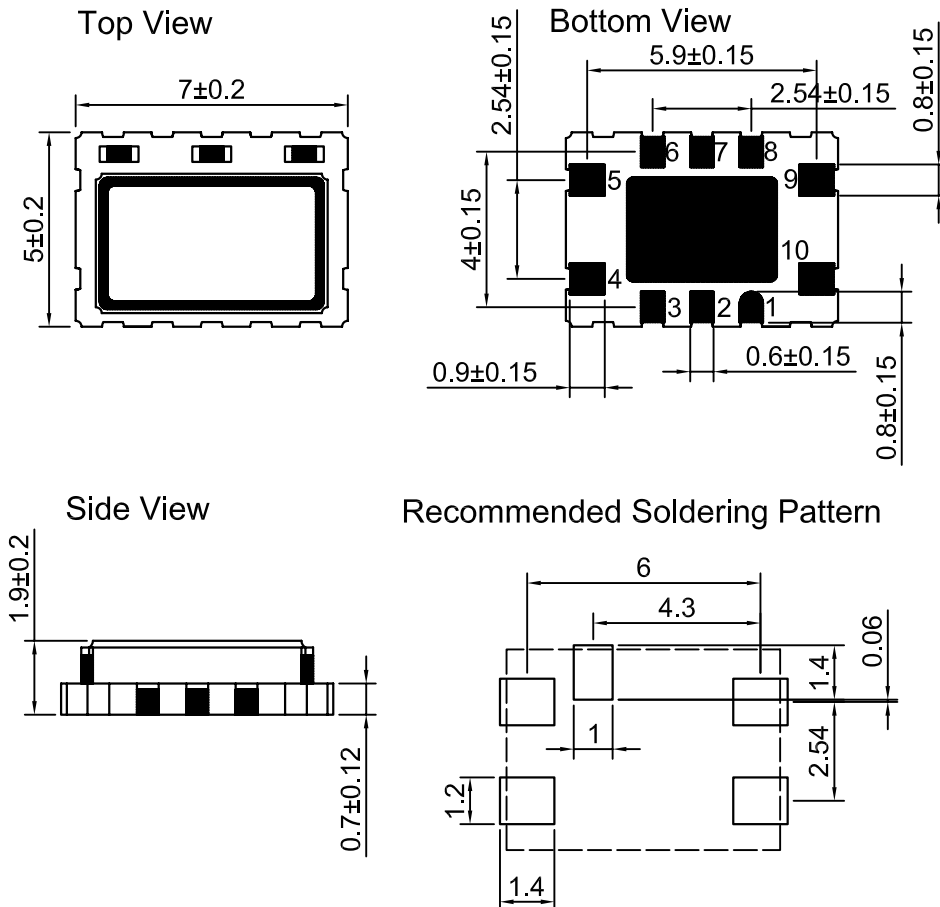
- 5MHz--52MHz Frequency range
- 3.3V and 5.0V Supply voltage
- CMOS and Clipped Sinewave Output waveform
- ±0.28ppm Stability Vs -40C -- +85C
- 7.0x5.0mm Size
- 5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25MHz for CMOS
- 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25MHz for Clipped Sinewave

Typical Applications

- Femtocell, Base Stations
- WLAN / WiMAX / WiFi, Wireless Communications
- Mobile Phone

Mechanical Drawing & Pin Connections

Drawing No: MD15001) -%



Pin Function

#1	NC
#2	NC
#3	NC
#4	GND
#5	Output
#6	NC
#7	NC
#8	Tri-State Control
#9	VDD
#10	VCON

Unit in mm
1mm = 0.0394 inches



Specifications

Specification	Conditon	5.0V		3.3V		Unit
		Min.	Max.	Min.	Max.	
Supply Voltage Variation(VDD)	V _{DD} ±5%	4.75	5.25	3.135	3.465	V
Frequency Range		5	52	5	52	MHz
Standard Frequency	For CMOS	5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25				MHz
	For Clipped Sinewave	8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25				
Frequency Tolerance			±2.0		±2.0	ppm
Frequency Stability						
Vs Supply Voltage	±5% Change		±0.5		±0.5	ppm
Vs Load	±10% Change		±0.2		±0.2	ppm
Vs Aging			±1.0		±1.0	ppm
Supply Current	CMOS	-	6	-	6	mA
	Clipped Sinewave	-	3.5	-	3.5	
Output Level(CMOS)	Output High	90%V _{DD}	-	90%V _{DD}	-	V
	Output Low	-	10%V _{DD}	-	10%V _{DD}	
	Duty	45	55	45	55	%
Output Level(Clipped Sinewave)		0.8		0.8		V _{p-p}
Load(CMOS)		15		15		pF
Load(Clipped Sinewave)		10kohm//10pf		10kohm//10pf		
Control Voltage Range(VCTCXO)		0.5	2.5	0.5	2.5	V
Pulling Range(VCTCXO)		±5	±12	±5	±12	ppm
Vc Input Impedance(VCTCXO)		100		100		kohm
Phase Noise@19.2MHz						
100Hz		-120		-120		dBc/Hz
1KHz		-140		-140		
10KHz		-148		-148		
Start Time		-	2	-	2	mSec
Tri-State	Enable	3.5	-	2.31	-	V
	Disable	-	1.5	-	0.99	
Storage Temperature		-55	-125	-55	-125	°C

Frequency Stability vs. Temperature

	±0.05PPM	±0.1PPM	±0.14PPM	±0.28PPM	±0.37PPM	±0.5PPM
-10°C to +60°C	Available	Available	Available	Available	Available	Available
-20°C to +70°C	Conditional	Available	Available	Available	Available	Available
-40°C to +85°C	Not Available	Not Available	Not Available	Available	Available	Available

Note: not all combination of options are available. Other specifications may be available upon request.