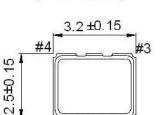
Features and Benefits

Better than +/- 1PPM from -40°C to +85°C 10MHz low consumption clipped sine wave output 3.3V supply; 2.0mA maximum Less than -135dBc/Hz @ 1KHz offset Less than -148dBc/Hz @ 10KHz offset

Typical Applications

Mobile Radio GPS Reference Beidou Navigation Systems

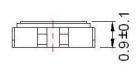
Mechanical Drawing & Pin Connections



[TOP VIEW]

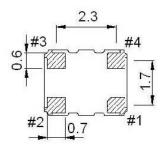


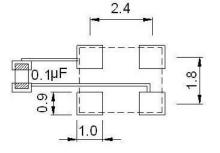
#1



#2







Recommened soldering pattern

Pin	Function
#1	VCON
#2	GND
#3	Output
#4	VDD

Specifications

Oscillator Specification		Sym Condition	Value			Unit	Note	
			Condition	Min.	Тур.	Max.	Offic	Note
No	ominal Frequency	F _{nom}			10.000000		MHz	
Output	Output Waveform		DC Couple clipped sine wave		Clipped sine wave			
	Output Voltage Level			0.8		2.0	Vp-p	
	Output Load				10Kohm//10pF			
	Start Up Time					2.0	ms	
Power S	Supply							
Supply Voltage		V _{cc}		2.85	3.0	3.15	V	
Supply Current			At maximum supply voltage			2.0	mA	
Frequer	ncy Control*							
Control Voltage Range		V _c		0.5	1.5	2.5	V	
Tuning Range			Reference to VCON at 1.5V	+/-5.0)		ppm	
Vcon Input Impedance			Measured between VCON and GND	500		KOhm		
			pin	500			KOIIII	
Linearity						10.0	%	
Frequer	ncy Stability							
	nperature		-40°C to 85°C, ref 25°C	-1.0		+1.0	ppm	
Tolerance At 25°C		Frequency @25C, 1hour after 2 times	-2.0		+2.0	ppm		
	Tolerance At 25 C		reflow.					
VS. Supply Voltage			Supply voltage varied +/-5% at 25C	-0.2		+0.2	ppm	
VS. Load Change			+-10% load change	-0.2		+0.2	ppm	
First Yea	ar Aging		First year at 25C	-1.0		+1.0	ppm	
	3 Phase noise (typ.)		100 Hz		-115		dBc/Hz	
			1 KHz		-135			
			10 KHz		-148			
	mental Conditions							
Parame		Reference Std.			Test Condition			
	ng temperature range	-40°C to 85°C						
Storage	temperature range	-40°C t						
MIL-STD-883 2002 Condition B JESD22-B104 Condition B				1500G, half-sine, 0.5ms, each axis for 3 times				
Vibration	1	MIL-ST	TD-883 2007 Condition A 2-B103 Condition 1	10-2000Hz, 1.52mm, 20G, each axis for 4hrs				
Thermal Shock MIL-STD-883 1010 Condition B					-55°C, 125°C; soak time is 10 mins, with total 200			
		JESD22-A104 Condition B			cycles.			

Test Circiut

