Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

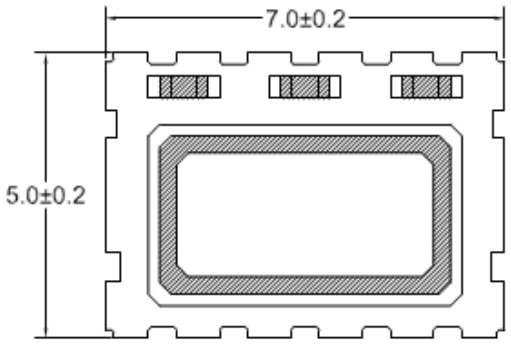
Better than ± 500 ppb from -40℃ to +85℃
10 MHz low noise LVCMOS output
3.3V supply; 3.5 mA typical
Less than -145 dBc/Hz @ 1KHz offset
Less than -154 dBc/Hz @ 10KHz offset

Typical Applications

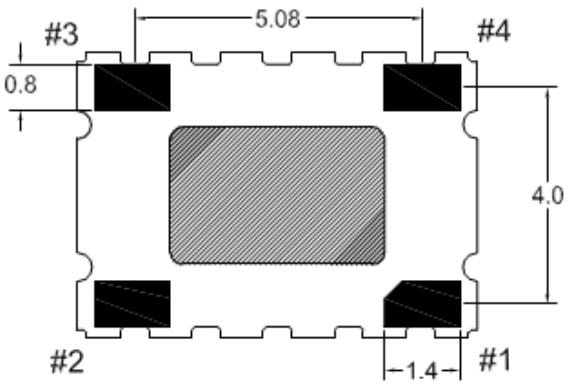
Mobile SATCOM
Mobile Radio
Harsh Environments
Femto-cell

Mechanical Drawing

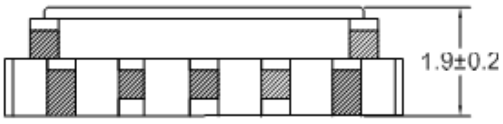
[TOP VIEW]



[BOTTOM VIEW]



[SIDE VIEW]



PIN	FUNCTION
#1	Vcon VC-TCXO GND TCXO
#2	GND
#3	OUTPUT
#4	VDD

Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Specifications

TCXO Specification		Sym	Condition	Value			Unit	Note
				Min.	Ty	Max.		
Operational Frequency Range		f_0			10.000000		MHz	
LVCMOS			Load		15		pF	
			Logic 1 level	0.9Vcc			V	
			Logic 0 level			0.1Vcc	V	
			Duty Cycle	45	50	55	%	
Power Supply								
Voltage		V_{CC}		2.970	3.300	3.630	V	
Current Consumption					3.5	6.0	mA	
Frequency versus Voltage								
Pin 1: Voltage Control			1.65V +/- 1.35V		+/- 8.0		ppm	
Pin 1: Input Impedance					100		K ohm	
Frequency Stability								
Vs. Temperature			-40°C to +85°C			+/-0.500	ppm	
Vs. at 25°C			Initial Accuracy at time of shipment			+/-0.500	ppm	
Vs. Reflow Shift			After 24 hours settling time			+/-1.000	ppm	
Aging								
			After 30 Days of Operation			+/- 1.0	ppm	
SSB Phase Noise								
@ 10MHz			100 Hz		-130		dBc/Hz	
			1 KHz		-145			
			10 KHz		-154			
			100 KHz		-154			