Features and Benefits

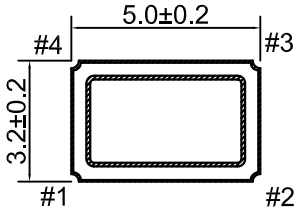
Better than +/- 200 ppb from -40℃ to +85℃
With respect to +25℃ reading
20.000000 MHz low noise cmos output
3.3V supply ; 6.0 mA max.
+/- 5 ppm min. pull with 1.5V +/- 1.0V control

Typical Applications

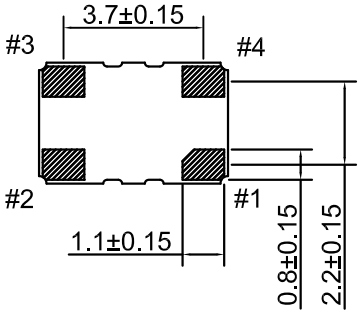
Mobile SATCOM
Mobile Radio
Harsh Environments
Femto-cell

Mechanical Drawing

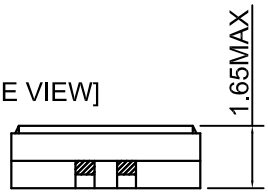
[TOP VIEW]



[BOTTOM VIEW]



[SIDE VIEW]



PIN FUNCTIONS

Pin#	Funttion
1	VCON/TRL-STATE
2	GND
3	Output
4	V_{DD}

Unit : mm

Specification

TCXO Specification		Sym	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f_0			20.000000		MHz	
	CMOS		Logic Level High	2.97			V	
			Logic Level Low			0.33	V	
			Output Load Capacitance			15.0	pF	
			Duty Cycle	45	50	55	%	
			Rise and Fall Times			8.0	ns	
			Start Time			2.0	ms	
Power Supply								
Voltage		V_{CC}		3.130	3.300	3.470	V	
Current Consumption					2.7	6.0	mA	
Frequency versus Voltage								
Pad 1: Frequency Adj.				±5.0			ppm	
Pad 1: Control Voltage				0.5	1.5	2.5	V	
Pad 1: Input Impedance				100			Kohm	
Frequency Stability								
Vs. Temperature		-40°C to +85°C				+/- 200	ppb	With respect to +25C frequency reading
Vs. at 25°C		Initial Accuracy before reflow				+/- 500	ppb	
Vs. +/- 5% Supply Variation		@ 25°C				+/- 300	ppb	
Vs. +/- 10 % Load Variation		@ 25°C				+/- 200	ppb	
Aging								
20 year projected		After 30 Days of Operation						
						+/- 2.50	ppm	20 year Maximum
SSB Phase Noise								
@ 20 MHz		100 Hz			-117	-112	dBc/Hz	
		1 KHz			-138	-132		
		10 KHz			-153	-145		
		100 KHz			-156	-148		