



Features and Benefits

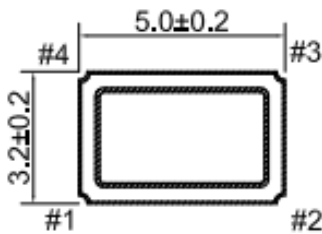
Better than ± 200 ppb from -40°C to $+85^{\circ}\text{C}$
With respect to $+25^{\circ}\text{C}$ reading
20.000000 MHz low noise cmos output
3.3V supply; 6.0 mA max.
 ± 5 ppm min. pull with $1.5\text{V} \pm 1.0\text{V}$ control

Typical Applications

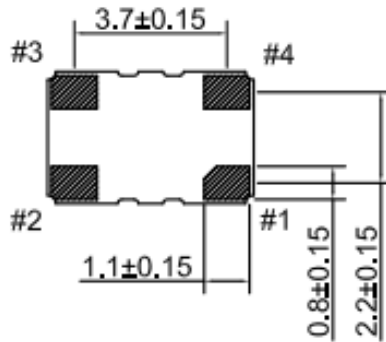
Mobile SATCOM
Mobile Radio
Harsh Environments
Femto-cell

Mechanical Drawing & Pin Connections

[TOP VIEW]



[BOTTOM VIEW]



[SIDE VIEW]



PIN FUNCTIONS

Pin#	Function
1	VCON/TRL-STATE
2	GND
3	Output
4	V _{DD}

Unit : mm



Specifications

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	5	%	
		Rise and Fall Times			8.	ns	
		Start Time			2.	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		