

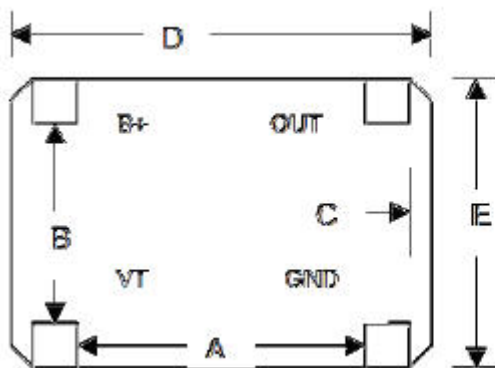
Features and Benefits

Better than ± 2.0 ppm from -40°C to $+85^{\circ}\text{C}$
100.000000 MHz low noise 7 dBm sine output
3.3V supply ; 35 mA typ.
 ± 8 ppm pull min. with 1.65V ± 1.65 V control

Typical Applications

Mobile SATCOM
Mobile Radio
Harsh Environments
Test Instruments

Mechanical Drawing



4 pads .10" square

A = 0.65"
B = 0.55"
C = 0.075"
D = 1.0"
E = 0.75"

Do not immerse in solvents

Specification

TCXO Specification		Sym	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f ₀			100.000000		MHz	
	50 ohm sine		Output Power	7.0			dBm	
			Harmonics (@ 200 MHz)			-25.0	dBc	
			Harmonics > 200 MHz			-35.0	dBc	
			Sub-harmonics (50 MHz)			-45.0	dBc	
			Load			50	ohms	
Power Supply								
Voltage		V _{CC}		3.130	3.300	3.470	V	
Current Consumption					35	50	mA	At maximum supply
Frequency versus Voltage								
				+/- 8 ppm min.	+/- 15 ppm max.			
Pin 1: Control Voltage :				0.0	1.65	3.3	V	
Frequency Stability								
Vs. Temperature, Voltage, and Load Variation		-40°C to +85°C				+/- 2.000	ppm	
@ 23°C		Initial Accuracy at time of shipment				+/- 2.500	ppm	@1.650 V for VT
Vs. Reflow Shift		After 24 hours settling time				+/- 1.000	ppm	Tuning Voltage
Aging								
		After 30 Days of Operation						
		Yearly Aging as projected				+/- 1.00	ppm / yr	
SSB Phase Noise								
@ 100 MHz		100 Hz			-123	-118	dBc/Hz	
		1 KHz			-140	-135		
		10 KHz			-150	-147		
Environmental								
Soldering Method		260°C peak for 10 sec. max	Hand Attach. Hand Clean. Can NOT be immersed in solvents					