

Features

50 MHz Operating Frequency
 Better than +/- 1 PPM stability from -40C to 85C
 13.21 mm x 9.02 mm x 5.33 mm SMD Package
 3.3V; HCMOS output

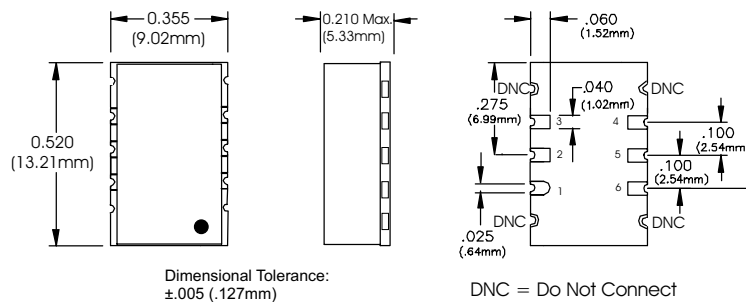
Typical Applications

Test Instrumentation
 Microwave Communications

Description

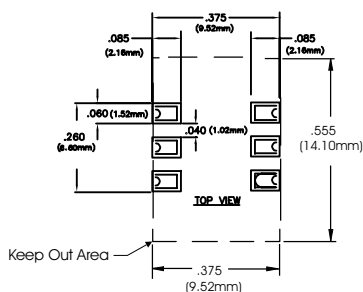
The TCXOCW914 operating at 50MHz offers a very high stability HCMOS output based on continuous analog temperature compensation.

Mechanical Drawing and PIN Connections



Pin	Connection
1	N/C or Control Voltage
2	Enable / Disable
3	Ground (Case)
4	Output
5	N/C
6	Supply Voltage (Vcc)

Suggested Pad Layout



Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f ₀			50		MHz	
HCMOS/ TTL compatible option N/A	Load				15		pF	
	H - level voltage	V _H		0.9*V _c			V	
	L - level voltage	V _L				0.1*V _c	V	
	Rise & Fall time					10	ns	
	Duty cycle			40	50	60	%	
Power supply								
Voltage		V _{cc}		3.150	3.300	3.450	V	
Current consumption						10	mA	
Frequency stability								
vs. temperature			From -40C to 85C	- 1.0		+ 1.0	PPM	
Tolerance at 25C ;			24 hrs after REFLOW	- 1.0		+ 1.0	PPM	
First Year Aging			After 30 days operation	- 1.0		+ 1.0	PPM	
SSB Phase noise At 50 MHz HCMOS								
			10 Hz		-80		dBc/Hz	
			100 Hz		-110		dBc/Hz	
			1KHz		-135		dBc/Hz	
			10KHz		-145		dBc/Hz	