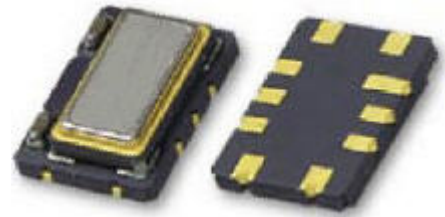


Features

As good as +/-120ppb from -40°C to +85°C
 Less than +/-1ppm aging over 20 years
 Low Noise Clipped Sine Output
 Rugged 7mm x 5mm SMD Package

Picture of Part

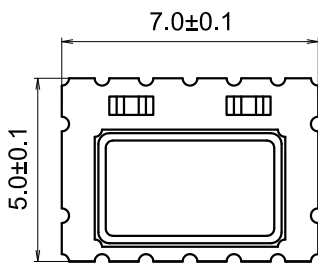


Typical Applications

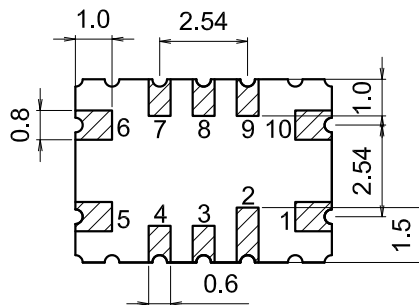
Transmission, TDM networks
 SDH, SONET
 Wireless communications
 IEEE 1588v2, SyncE
 STRATUM III
 Wireless backhaul
 Metro carrier Ethernet
 Femtocells, picocells

Mechanical Drawing and PIN Connections

[Top View]

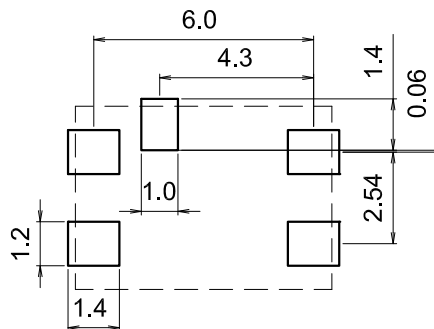
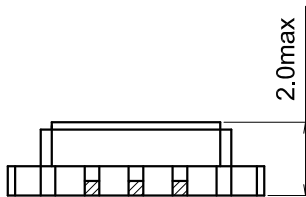


[Bottom View]



Unit: mm

[Side View]



Recommended Soldering Pattern

Pin	Function	Pin	Function
#1	VCON	#6	Output
#2	NC	#7	NC
#3	NC	#8	NC
#4	NC	#9	Tri-State Control
#5	GND	#10	V _{DD}

Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f ₀			9.6		MHz	
Clipped Sine Waveform	Load Resistance				10		KOhm	+/-10%
	Load Capacitance				10		pF	+/-10%
	Level			1.0			Vp-p	
Power supply								
Voltage		V _{cc}		4.75	5.0	5.25	V	
Current consumption						5	mA	
Frequency stability								
VS. Temperature			From -40C to +85C			+/-0.28	PPM	Refer to (Fmin+Fmax)/2
VS. Supply						+/-0.1	PPM	V _{cc} +/-5%
VS. loading						+/-0.1	PPM	Load+/-10%
Aging								
First Year Aging			After 30 days operation			+/- 0.3	PPM	
20year						+/- 1	PPM	
SSB Phase noise At 9.6 MHz sine wave			100Hz		-123		dBc/Hz	
			1KHz		-140			
			10KHz		-150			
			100KHz		-153			
Control Voltage Characteristics								
Contol Voltage		V _c		0.6	2.1	3.6	V	
Frquency Pullibility@25C				+/-5			PPM	
Control Slope								Positive Slope
Monotonic Linearity				5			%	
Input Impedance				100K			Ohm	
Modulation Bandwidth(3dB)				10			KHz	

Ordering information

TCXO7500THP-9.6MHz-X

1. Field "X" is Operating Temperature Range and Frequency stability:

- a. "A" for -40°C to +85°C and +/- 120 ppb
- b. "B" for -40°C to +85°C and +/- 140 ppb
- c. "C" for -40°C to +85°C and +/- 180 ppb
- d. "D" for -40°C to +85°C and +/- 200 ppb
- e. "E" for -40°C to +85°C and +/- 220 ppb
- f. "F" for -40°C to +85°C and +/- 280 ppb