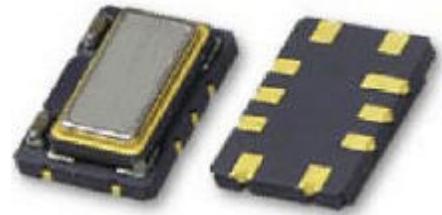


**Features**

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**

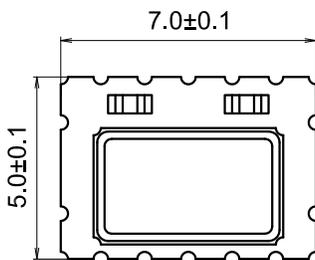


**Typical Applications**

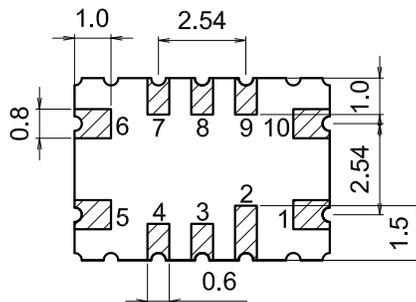
Transmission, TDM networks  
 SDH, SONET  
 Wireless communications  
 IEEE 1588v2, SyncE  
 STRATUM III  
 Wireless backhaul  
 Metro carrier Ethernet  
 Femtocells, picocells

**Mechanical Drawing and PIN Connections**

[Top View]

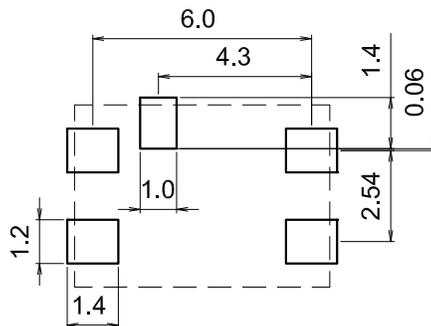
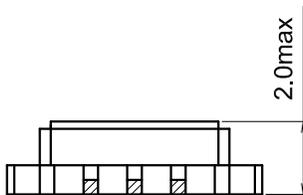


[Bottom View]



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 <sub>DD</sub>

## Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
<b>Operational Frequency Range</b>		$f_0$			9.6		MHz	
Clipped Sine Waveform	Load Resistance				10		KOhm	+/-10%
	Load Capacitance				10		pF	+/-10%
	Level			1.0			Vp-p	
<b>Power supply</b>								
Voltage		$V_{cc}$		4.75	5.0	5.25	V	
Current consumption						5	mA	
<b>Frequency stability</b>								
VS. Temperature			From -40C to +85C			+/-0.28	PPM	Refer to (Fmin+Fmin)/2
VS. Supply						+/-0.1	PPM	$V_{cc}$ +/-5%
VS. loading						+/-0.1	PPM	Load+/-10%
<b>Aging</b>								
First Year Aging			After 30 days operation			+/- 0.3	PPM	
20year						+/- 1	PPM	
<b>SSB Phase noise</b> At 9.6 MHz sine wave			100Hz		-123		dBc/Hz	
			1KHz		-140			
			10KHz		-150			
			100KHz		-153			
<b>Control Voltage Characteristics</b>								
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

GSTX1205-9.6Mhz-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