

# High Precision TCXO /VC-TCXO

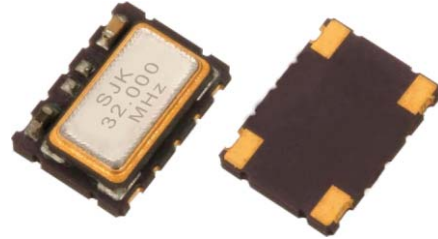


Size: 7.0×5.0×2.0mm

8T Series SMD TCXO Oscillators

## Features

- CMOS and clipped sine wave output optional.
- Typical 7.0×5.0×2.0mm ceramic SMD package.
- Supply voltage: 2.7V~5.5V
- High precision for -40~+85°C, ±0.2ppm.
- Voltage control function available.
- Automatic mounting and reflow soldering.
- Applications: Base station, Femtocell, Wireless communications, Telecommunications, etc.
- High stability and high reliability.
- RoHS Compliant / Pb-Free.



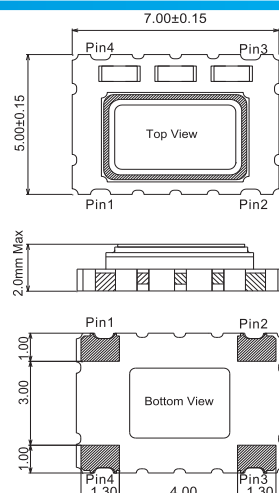
## Electrical Specifications

Item /Type		8T (SMD 7050 TCXO)	
Output Type		Clipped Sinewave	CMOS
Output Load		10KΩ /10pF	15pF
Output Voltage		0.8 Vp-p Min.	Output Low (VOL) 0.1 * Vcc Max. Output High (VOH) 0.9 * Vcc Min.
Supply Current		3.5mA Max.	6mA Max.
Oscillation Mode		Fundamental	
Supply Voltage		2.7 ~ 5.5V	
Frequency Range		5 ~ 52MHz	
Initial Frequency Tolerance at 25°C after 2 Reflows		±2.0ppm	
Frequency Tolerance	Vs. Temperature ( - 40 ~ + 85°C )	±0.2ppm	
	Vs. Load ( ±5% )	±0.1ppm	
	Vs. Supply Voltage ( ±5% )	±0.1ppm	
Storage Temperature Range		-55 ~ +125°C	
Auto Frequency Control Range (Option)		±5ppm (1.5 ±1 V)	
Start-up Time		2.0ms Max.	
Harmonics		-5dBc Max.	
Phase Noise at 1KHz Offset		-145dBc/Hz	
Aging		±1ppm/Year Max.	
24 Hr Holdover Stability (Option) [#1]		±40ppb	
Free Run Stability for 20 Years (Option) [#2]		±4.6ppm	

[#1] 24 hours at constant temperature after 48 hours operation.

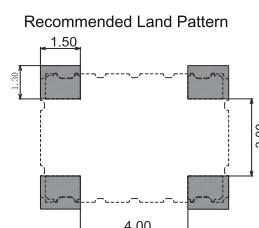
[#2] Inclusive of initial tolerance at 25°C, temperature, supply voltage ± 5%, load ± 5%, reflow soldering and ageing 20 years.

## Dimensions



Pin Connection

Name	Function
Pin 1	AFC or GND
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VCC



Units:mm