

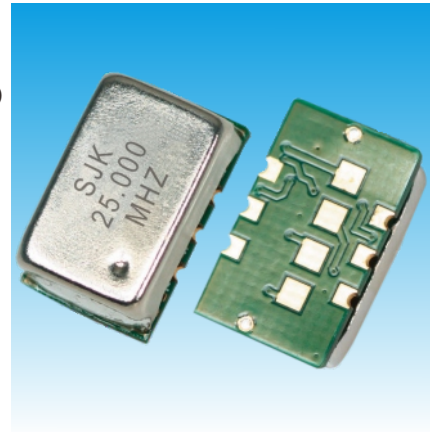
# TCXO (Temperature Compensated Crystal Oscillator)

Size: 14.3×8.7×5.00 mm

9T Series SMD TCXO /VC-TCXO

## Features

- Output frequency: 5~40MHz
- 1490 size, 5.0mm high, SMD TCXO/VC-TCXO
- TTL/CMOS or Clipped Sine wave output
- Metal cover, FR-4 PCB based
- VCTCXO available
- Low current option
- Applications: Large-Scale equipment, Mobile communications, etc.
- RoHS Compliant /Pb Free

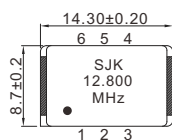


## Standard Specification

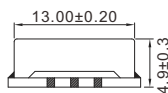
Item /Type		9T (SMD TCXO /VC-TCXO)	
Output Type		Clipped Sinewave	CMOS
Output Load		10KΩ //10pF	15pF
Supply Voltage		3.3V /5.0V	
Frequency Range		5~40 MHz	
Supply Current		3.5mA Max.	6mA Max.
Output Level		0.8 Vp-p Min.	0.1Vcc /0.9Vcc
Frequency Stability	Tolerance	±2.0ppm Max. (after 2 reflows)	
	vs Temperature	±0.5ppm Max.	
	vs Supply Voltage (Vcc±5%)	±0.2ppm Max.	
	vs Load (Load Varies±10%)	±0.2ppm Max.	
	vs Aging	±1.0ppm Max. /Year	
Auto Frequency Control (AFC) Range*		±5~±10ppm (1.5±1V)	
Start-up Time		2ms Max.	2ms Max.
Operating Temperature		-40~+85°C, or specify	
Phase Noise @12.8MHz	100Hz	-120dBc/Hz	
	1KHz	-140dBc/Hz	
	10KHz	-148dBc/Hz	
Packing Unit		200pcs./Reel	

\*AFC Range is selective and disable is acceptable.

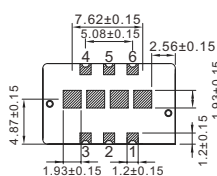
## Dimensions [mm]



Top View



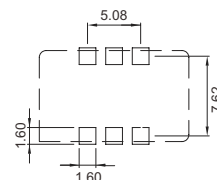
Side View



Bottom View

## Pin Connections

Pin No.	Connection
1	Vcon(VC-TCXO)/GND(TCXO) Enable /Disable (Stand-by function)
2	GND
3	Output
4	Vcc



Top View Suggested Layout