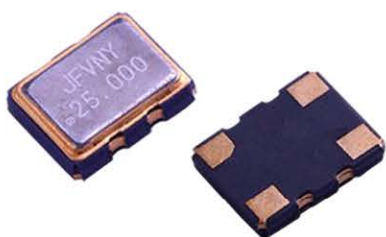


TC32/VT32



Description:

- Low Jitter $\pm 5 \times 10^{-6}$ Max.
- Frequency Stability $\pm 0.5 \times 10^{-6}$
- Green Product
- Small Volume
- Dribbling Packaging
- Military Radio
- PCS Base Station
- Measuring Equipment
- GPS 设备

Performance Characteristics

Parameter		Condition	TC32 / VT32		
Frequency Range	F_0		10.000MHz~50.000MHz		
Nominal Frequency (MHz)	F_0		10	13	19.2 19.68 26
Frequency Tolerance	F_{tol}	At 25°C	$\leq \pm 2.0$ ppm		
Frequency Stability	F_{0_Tc}		See Table Below		
Supply Voltage	V_{DD}		A: +3.3VDC $\pm 10\%$ D: +2.5VDC $\pm 10\%$		E: +1.8VDC $\pm 10\%$ F: +2.8VDC $\pm 10\%$
Supply Current	I_{DD}	$10M \leq F_0 < 15M$	1.5mA Max.		
		$15M \leq F_0 < 26M$	2.0mA Max.		
		$26M \leq F_0 \leq 50M$	2.5mA Max.		
Output Waveform		H: Peak Clipping Sine Wave		COMS	
Output Load		10K Ω //10pF $\pm 10\%$		15pF	
Output Level	"0" V_{OL}		0.8V (P-P) Min.		10% V_{DD}
	"1" V_{OH}				90% V_{DD}
Low Jitter	F_{cont}		See Selection Guide		
Phase noise		10MHz 下	100Hz	1KHz	10KHz
			-115dBc/Hz	-135dBc/Hz	-148dBc/Hz
Frequency Stability relative to	Working voltage $F_0_V_{DD}$	$\pm 5\%$	$\pm 0.2 \times 10^{-6}$ Max.		
	Load F_0_Load	$\pm 10\%$	$\pm 0.2 \times 10^{-6}$ Max.		
	Frequency Aging $_age$		$\pm 1 \times 10^{-6}$ /Year Max.		
VcInput Impedance	R_{in}		1.0M Ω		
Start-Up Time	T_s		2mS Max.		
Storage Temperature	T_{stg}		-55°C~+125°C		

Frequency Temperature Stability Table

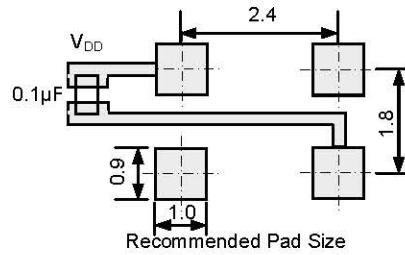
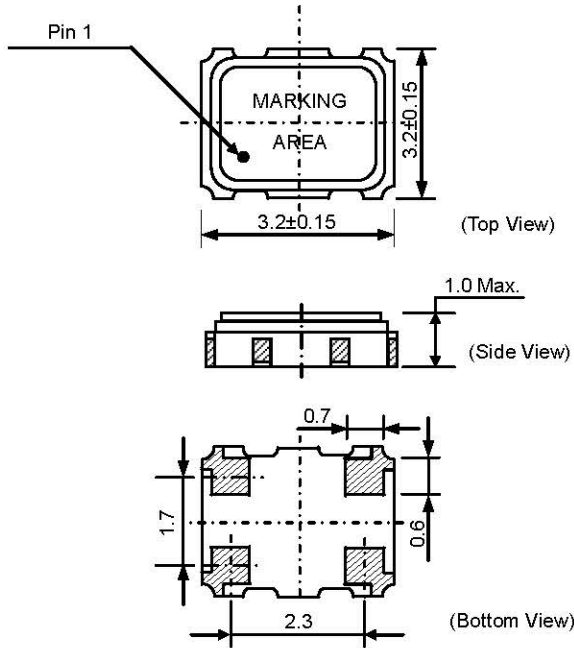
Temperature Range	Frequency Stability					
	H: $\pm 0.5 \times 10^{-6}$	I: $\pm 1.0 \times 10^{-6}$	J: $\pm 1.5 \times 10^{-6}$	K: $\pm 2.0 \times 10^{-6}$	L: $\pm 2.5 \times 10^{-6}$	N: $\pm 5.0 \times 10^{-6}$
A: 0°C ~ +50°C	●	●	●	●	●	●
B: -10°C ~ +60°C	●	●	●	●	●	●
C: -20°C ~ +70°C	●	●	●	●	●	●
D: -30°C ~ +75°C	◎	●	●	●	●	●
ΔG: -40°C ~ +85°C	◎	●	●	●	●	●

●: Optional ◎: Customized Δ: Industrial ▽: Automotive ☆: Military Products

Note: for those not marked in the selection table of frequency and temperature stability, please communicate with us for confirmation

TC32 / VT32

Outline Size (mm)



Pin	Functionality
#1	Pressure control end for pressure control and temperature compensation Grounding for temperature compensation
#2	Ground
#3	Output
#4	Power

Selection Guide

TC **32** **N** **A** **A** **I** **H** **26.000** **MHz**

Product Category
 TC= TCXO

Package Size
 32= 3.20×2.50×1.00mm

Control Voltage Range
 N= No Voltage Control Function
 A= ±5×10⁻⁶

Voltage Control Range:
 1.8V : 0.3V ~ 1.5V
 2.5V / 3.3V : 0.5V ~ 2.5V

Power Supply Voltage
 A= +3.3VDC±10% D= +2.5VDC±10%
 E= +1.8VDC±10% F= +2.8VDC ± 10%

Temperature Range
 A= 0°C~+50°C
 B= -10°C~+60°C
 C= -20°C~+70°C
 D= -30°C~+75°C
 G= -40°C~+85°C

Frequency
 10.00MHz~50.00MHz

Output Waveform
 H= Peak clipping sine wave
 C= CMOS 15pF

Frequency Stability
 H= ±0.5×10⁻⁶
 I= ±1.0×10⁻⁶
 J= ±1.5×10⁻⁶
 K= ±2.0×10⁻⁶
 L= ±2.5×10⁻⁶
 N= ±5.0×10⁻⁶
 See frequency temperature stability table for details
 " ● ◎ " As optional

Sample Selection

TC32-NAAIH-26MHz

TCXO / No Voltage Control Function / +3.3VDC / 0°C~+50°C / ±1.0×10⁻⁶ / Peak Clipping Sine Wave / 26MHz

VT32-AEAIH-26MHz

VCTCXO / ±5PPM 0.9V±0.6V / +1.8VDC / 0°C~+50°C / ±1.0×10⁻⁶ / Peak Clipping Sine Wave / 26MHz