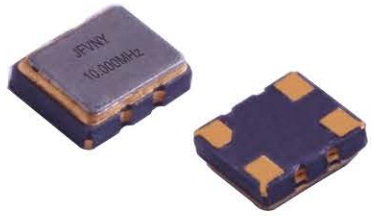
TC25/VT25



Description:

- Low Jitter±5×10^{-6} Max.
- Frequency Stability±0.5×10^{-6}
- Peak Clipping sine Wave Output
- Small Volume
- Dribbling Packaging
- Green Product
- Military Radio
- PCS Base Station
- Measuring Equipment
- GPS Equipment

Performance Characteristics

Parameter		Condition	TC25 / VT25		
Frequency Range	F_0		10.000MHz~50.000MHz		
Nominal Frequency (MHz)	F_0		13 19.2 19.68 26		
Frequency Tolerance	F_tol	At 25℃	≤±2.0ppm		
Frequency Stability	F_0_Tc		See Table Below		
Supply Voltage	V_{DD}		F:+2.8VDC±10% D:+2.5VDC±10% E:+1.8VDC±10% H:+1.5VDC±10%		
Supply Current	I_{DD}	10M≤F_0<26M	2.0mA Max.		
		26M≤F_0≤50M	2.5mA Max.		
Output Waveform			H: Peak Clipping Sine Wave		
Output Load			10KΩ//10pF±10%		
Output Level			0.8V (P-P) Min.		
Low Jitter	Fcont		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}	±5%	±0.2×10^{-6} Max.		
	Load F_0_Load	±10%	±0.2×10^{-6} Max.		
	Frequency Aging F_age		±1×10^{-6}/Year Max.		
VcInput Impedance	Rin		1.0MΩ		
Start-Up Time	Ts		2mS Max.		
Storage Temperature	T_stg		-55°C~+125°C		

Frequency Temperature Stability Table

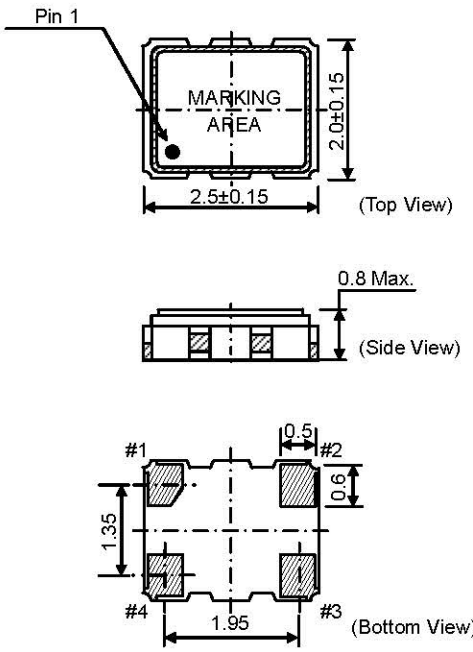
Tempperature Range	Frequency Stability					
	H:±0.5×10^{-6}	I:±1.0×10^{-6}	J:±1.5×10^{-6}	K:±2.0×10^{-6}	L:±2.5×10^{-6}	N:±5.0×10^{-6}
A: 0°C ~ +50°C	●	●	●	●	●	●
B:-10°C ~ +60°C	●	●	●	●	●	●
C:-20°C ~ +70°C	●	●	●	●	●	●
D:-30°C ~ +75°C	◎	●	●	●	●	●
▵G:-40°C ~ +85°C	◎	●	●	●	●	●

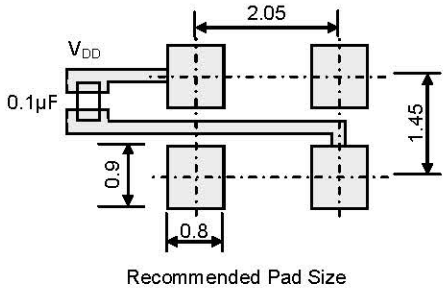
●: Optional ◎: Customized Δ: Industrial ∇: Automotive ☆: Military Products

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

TC25 / VT25

Outline Size (mm)





Recommended Pad Size

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 25 — N F A I H — 26.000 MHz

Product Category
TC= TCXO

Package Size
25= 2.50×2.0×0.80mm

Control Voltage Range
N= No Voltage Control Function
A= $\pm5\times10^{-6}$
Voltage Control Range:
1.5V / 1.8V：0.3V ~ 1.5V
2.5V / 2.8V：0.4V ~ 2.4V

Power Supply Voltage
F:+2.8VDC±10%　D:+2.5VDC±10%
E:+1.8VDC±10%　H:+1.5VDC±10%

Tempperature 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 Stability
H= $\pm0.5\times10^{-6}$
I= $\pm1.0\times10^{-6}$
J= $\pm1.5\times10^{-6}$
K= $\pm2.0\times10^{-6}$
L= $\pm2.5\times10^{-6}$
N= $\pm5.0\times10^{-6}$
See frequency temperature stability table for details
" ● ◎ " As optional

Output Waveform
H= Peak clipping sine wave

Frequency
10.00MHz~50.00MHz

Sample Selection

TC25-NFAIH-26MHz
TCXO / No Voltage Control Function / +2.8VDC / 0°C~+50°C / $\pm1.0\times10^{-6}$ / Peak clipping sine wave / 26MHz
VT25-AEAIH-26MHz
VCTCXO / ±5PPM 0.9V±0.6V / +1.8VDC / 0°C~+50°C / $\pm1.0\times10^{-6}$ / Peak clipping sine wave / 26MHz