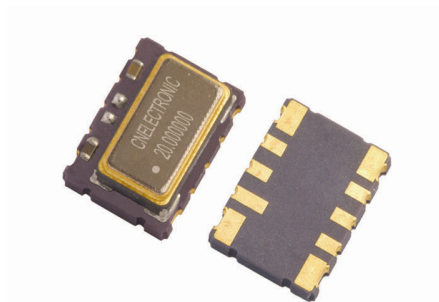


Temperature Compensated Crystal Oscillators (TCXOs)

TC75



Description:

- Stability up to $\pm 0.5 \times 10^{-6}$
 - Control Voltage Range $\pm 10 \times 10^{-6}$ Max
 - Clipped Sine Wave Output
 - Miniature Package
 - Tape and Reel
- Mobile Phone

Performance Characteristics

Parameter		Condition	TC75	
Frequency Range	F_0		10.000MHz~36.000MHz	
Standard Nominal Frequency (MHz)			12.8	13 14.4 19.2 19.68 19.8 26
Frequency Stability		All Condition	See Next Table	
Operating Temperature Range	T_{OPR}		See Next Table	
Supply Voltage	V_{DD}		B: +5.0VDC \pm 10%	A: +3.3VDC \pm 10%
Supply Current	I_{DD}	$10M \leq F_0 < 15M$	1.5mA Max	
		$15M \leq F_0 < 26M$	2.0mA Max	
		$26M \leq F_0 < 36M$	2.5mA Max	
Output Load		H: Clipped Sine Wave		
Output Level		0.8V (peak to peak) Min		
Load		10K Ω //10pF \pm 10%		
Control Voltage Range		See Ordering Information		
Frequency Stability	Supply Voltage change	$\pm 5\%$	$\pm 0.2 \times 10^{-6}$	
	Load change	$\pm 10\%$	$\pm 0.2 \times 10^{-6}$	
	Aging		$\pm 1 \times 10^{-6}$ /year	
Vc Input Impedance		1.0M Ω		
Start-Up Time	T_s	2mS Max		
Storage Temperature Range	T_{STG}	-55°C~+125°C		

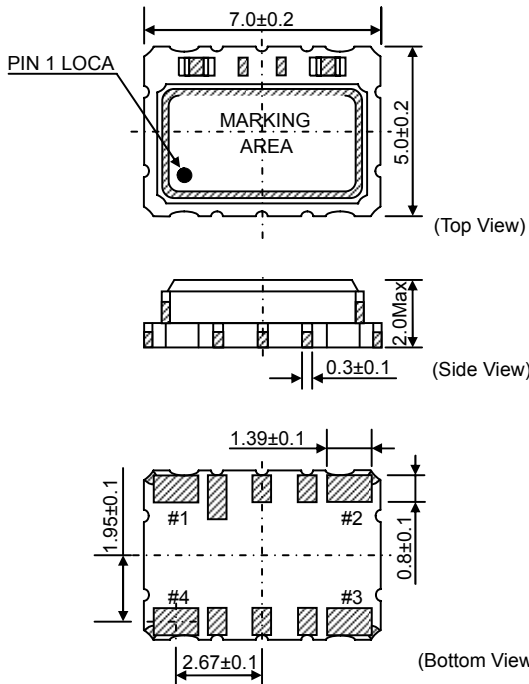
Frequency Stability Over Temperature Range

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		●	●	●	●	●
G: -40°C~+85°C		●	●	●	●	●

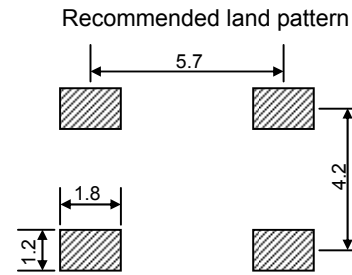
Temperature Compensated Crystal Oscillators (TCXOs)

TC75

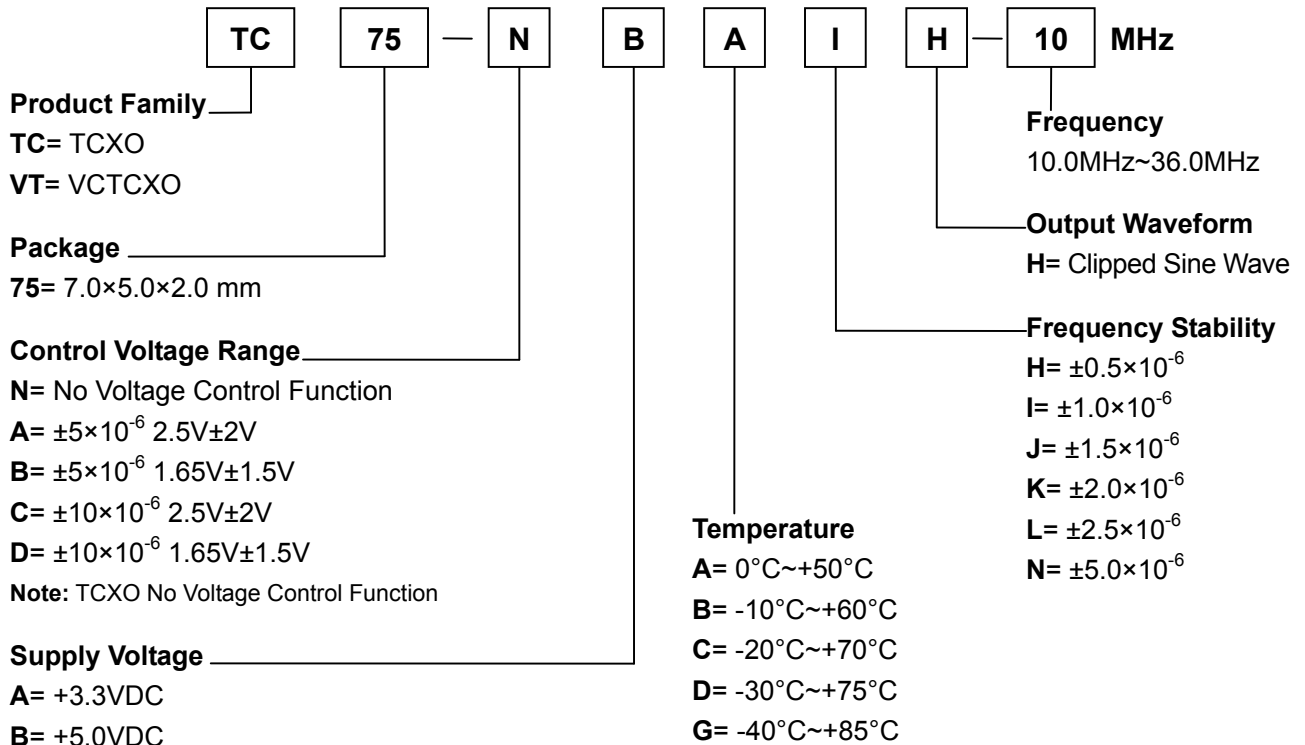
Outline Drawing (mm)



PAD NO.	CONNECTION
#1	VCON VCTCXO GND TCXO
#2	GND
#3	OUTPUT
#4	+DC



Ordering Information



Ordering Example

TC75-NBAIH-10MHz

TCXO / No Voltage Control Function / +5.0VDC / 0°C~+50°C / ±1.0×10⁻⁶ / Clipped Sine Wave / 10MHz

VT75-ABAIH-10MHz

VCTCXO / ±5PPM 2.5V±2V / +5.0VDC / 0°C~+50°C / ±1.0×10⁻⁶ / Clipped Sine Wave / 10MHz