

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard:     **T22-S539-26.00MHz-C**    

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2020.12.16			

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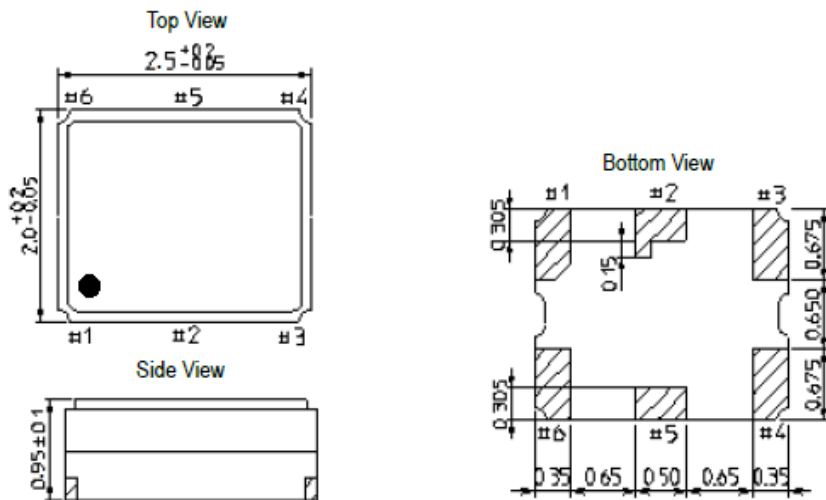
## 1. Electrical Parameters

MODEL: T22-S539-26.00MHz-C							
Item	Description	Parameters			Unit	Test Condition	
		Min.	Typ.	Max.			
Output	Frequency	26.00			MHz		
	Output Waveform	Clipped Sine Wave					
	Vp-p	0.8			V		
	Start up time			2	ms	More than 90% of final amplitude.	
	Load	10KΩ//10pF					
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	$T_A$ varied from $-30^{\circ}\text{C}$ to $85^{\circ}\text{C}$ , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $O_{load}=10\text{K}\Omega//10\text{pF}$ , temperature variable speed less than $2^{\circ}\text{C}$ per minute.	
		-3.0		+3.0	$\times 10^{-6}$	@ $-40^{\circ}\text{C}$ to $-30^{\circ}\text{C}$	
	Nominal Frequency Tolerance	-1		+1	$\times 10^{-6}$	After 2 times reflow, Ref.to nominal frequency, Please leave after reflow in 2h or more at room ambient.	
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$ , $V_{cc}\pm 5\%$ and $O_{Load}=10\text{K}\Omega//10\text{pF}$ .	
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}\pm 5\%$ , and $O_{Load}=10\text{K}\Omega//10\text{pF}$ .	
	Reflow soldering	-1		+1	$\times 10^{-6}$	2 times.	
	Slope		-0.1		+0.1	$\times 10^{-6}/^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ , Every $2^{\circ}\text{C}$ .
			-0.2		+0.2	$\times 10^{-6}/^{\circ}\text{C}$	$-30^{\circ}\text{C} \sim -20^{\circ}\text{C}$ , Every $2^{\circ}\text{C}$ .
			-0.2		+0.2	$\times 10^{-6}/^{\circ}\text{C}$	$+70^{\circ}\text{C} \sim +85^{\circ}\text{C}$ , Every $2^{\circ}\text{C}$ .
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$ , $V_{cc}\pm 5\%$ , and after 1h of operation.	
Power Supply	Operating Current			1.5	mA	@ $25^{\circ}\text{C}$ , $V_{cc}\pm 5\%$ , $O_{Load}=10\text{K}\Omega//10\text{pF}$ .	
	Supply Voltage	1.7		3.3	V		
Phase Noise	Phase Noise		-50		dBc/Hz	1Hz	
			-80			10Hz	
			-105			100Hz	
			-130			1KHz	
			-148			10KHz	
			-150			1MHz	

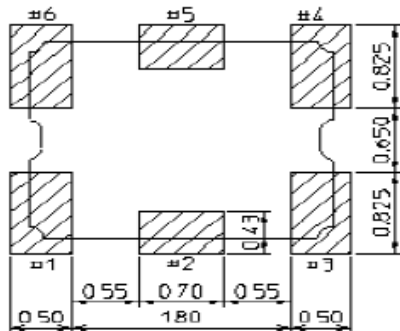


Environmental Conditions	Operating Temperature	-40		+85	°C	
	Storage Temperature	-40		+85	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z ) .IEC 68-2-06 Test Fc.				
Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z ),IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				

## 2. Mechanical Structure(mm)



Recommended Land Pattern



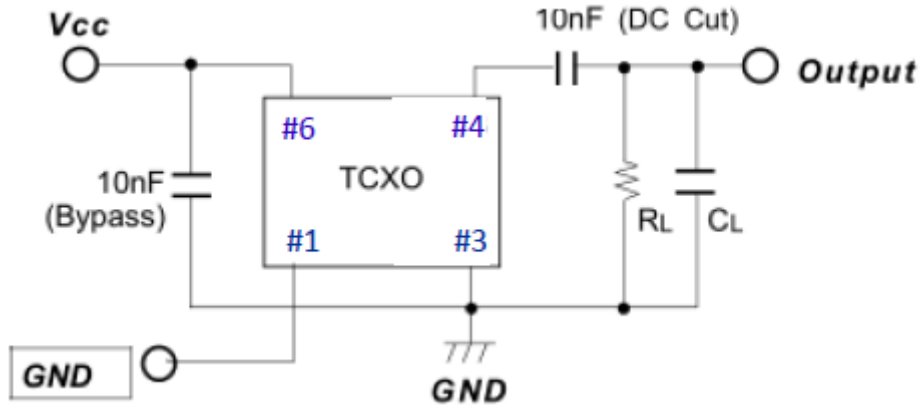
Pad No.	Connection
#1	GND
#3	GND
#4	Output
#6	Vcc
#2,#5	N.C.

**Note1:** Tolerance ±0.1mm without mark

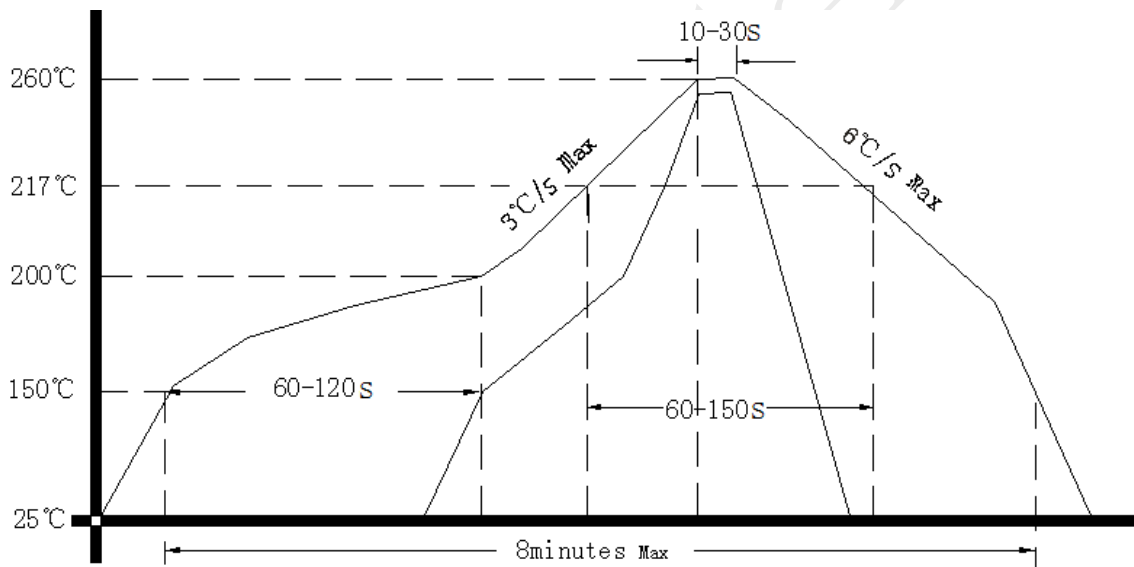
**Note2:** Referential weight 0.01g



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

