

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

# DATASHEET

Standard:     **T21-P571-26.00MHz-B**    

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

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2024.08.30			

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### Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2024.08.30



## 1. Electrical Parameters

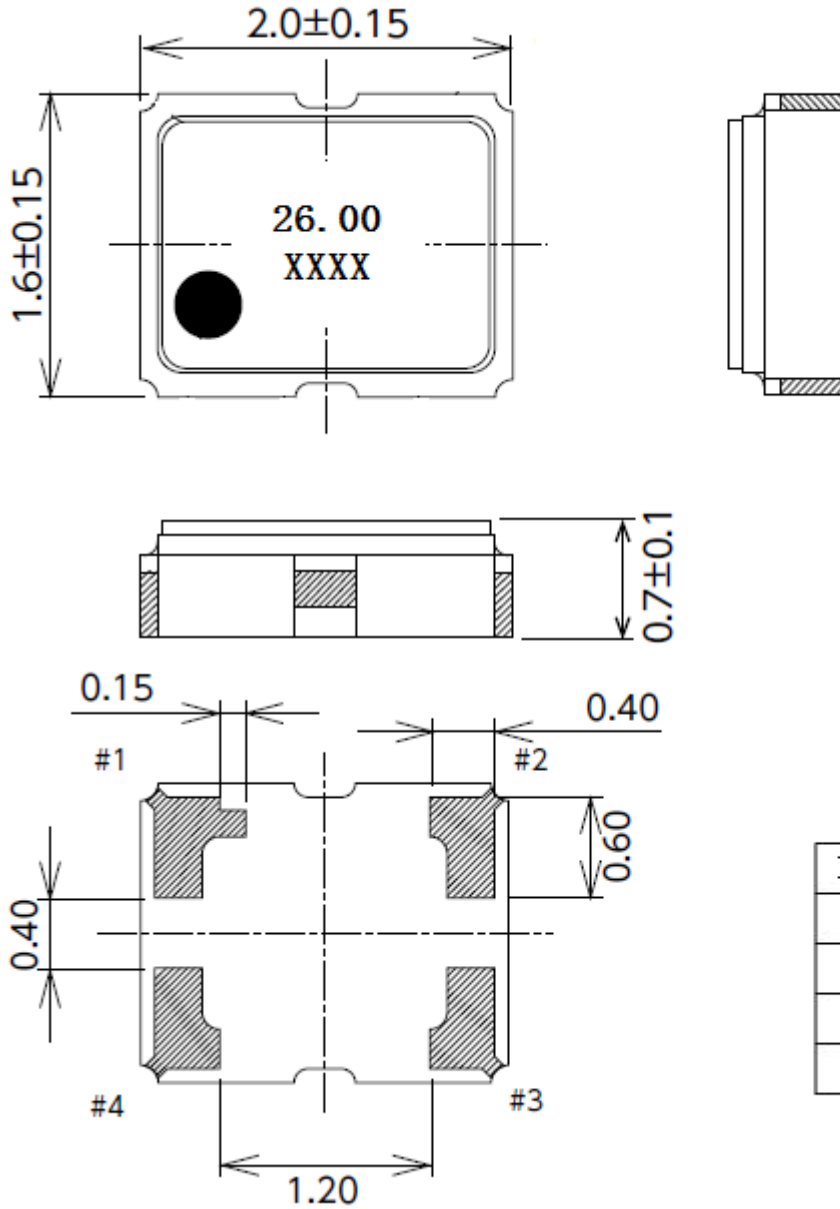
MODEL: T21-P571-26.00MHz-B						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Start up time			2.0	ms	90% of final Vout level
	Vp-p	0.8			V	
	Symmetry	40		60	%	GND Level (DC cut)
	Harmonics			-5	dBc	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	Vc=1.65V ,After two times reflow Ref. to nominal frequency
	vs. Temperature Range	-2.5		+2.5	$\times 10^{-6}$	T <sub>A</sub> varied from -40°C to 95°C, measurement referenced to frequency observed with f <sub>ref</sub> =(f <sub>max</sub> +f <sub>min</sub> )/2, V <sub>cc</sub> = 3.3V, V <sub>c</sub> =1.65V, O <sub>load</sub> = 15pF, temperature variable speed less than 2°C per minute.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed TA=25°C, V <sub>cc</sub> varied from 3.13V to 3.47V, V <sub>c</sub> =1.65V ,and O <sub>Load</sub> =10KΩ//10pF
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, V <sub>c</sub> =1.65V ,and O <sub>Load</sub> =10KΩ//10pF .
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, V <sub>c</sub> =1.65V ,and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Operating Current			1.5	mA	
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise			-85	dBc/Hz	10Hz
				-110		100Hz
				-130		1KHz
				-140		10KHz
				-145		100KHz
				-145		1MHz
				-145		



Voltage Control Characteristics	Frequency Tuning Range			-8.0	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=1.65V$
		-1.5		+1.5	$\times 10^{-6}$	$V_c=1.65V$ . measurement referenced to exactly 26.00MHz
		+8.0			$\times 10^{-6}$	$V_c=3.3V$ . measurement referenced to $V_c=1.65V$
	Input Resistance	500			K $\Omega$	
Environmental Conditions	Operable Temperature	-40		+95	$^{\circ}C$	
	Storage Temperature	-40		+85	$^{\circ}C$	
	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 ( $^{\circ}C$ )	-10~35 $^{\circ}C$				



## 2. Mechanical Structure(mm)



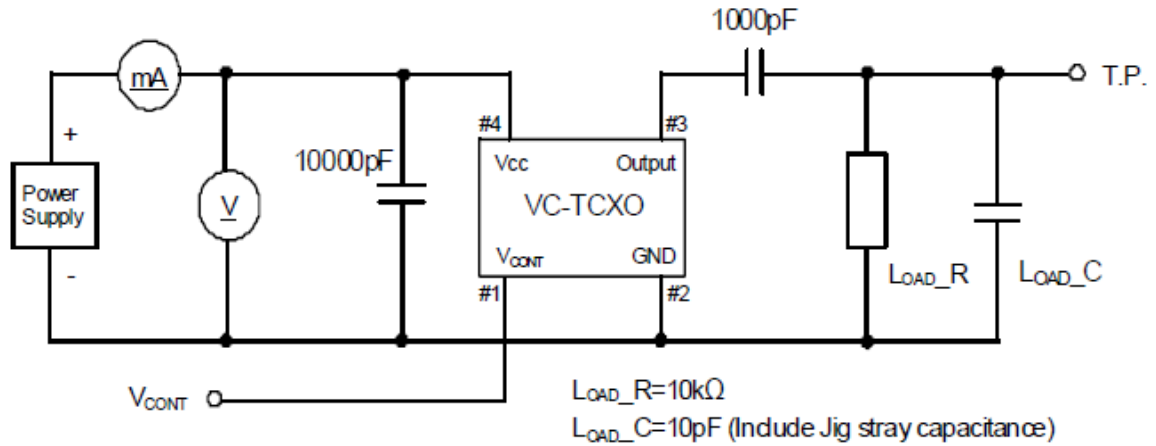
**Note1:** Tolerance  $\pm 0.2$ mm

**Note2:** Referential weight 0.008g

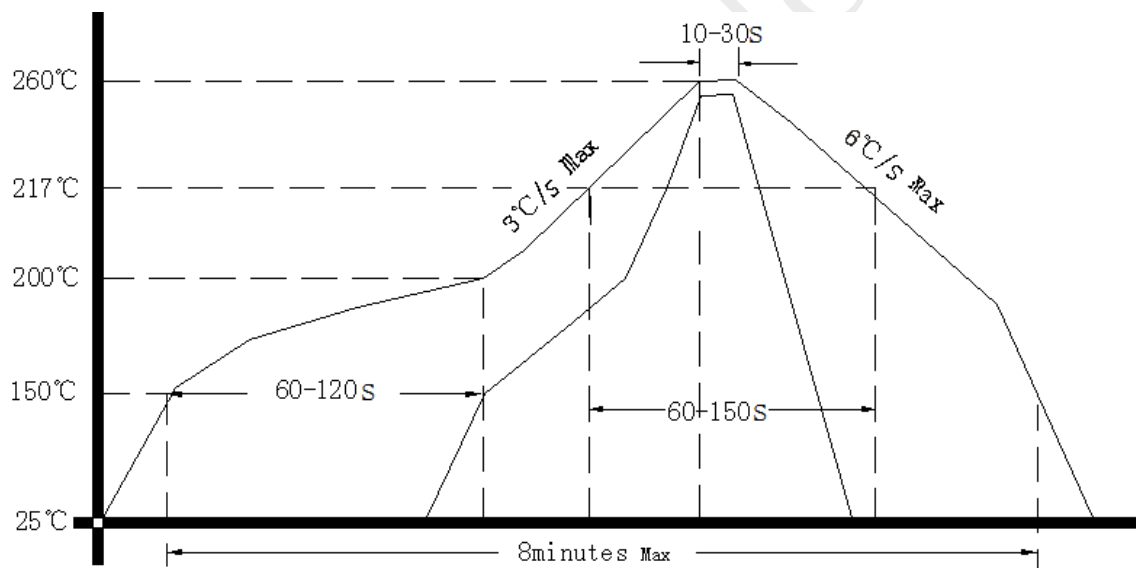
**Note3:** The first two xx representative: year  
After two xx representative: week



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



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

