

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

# DATASHEET

Standard:     **T22-F519-10.00MHZ**    

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

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2025.01.13			

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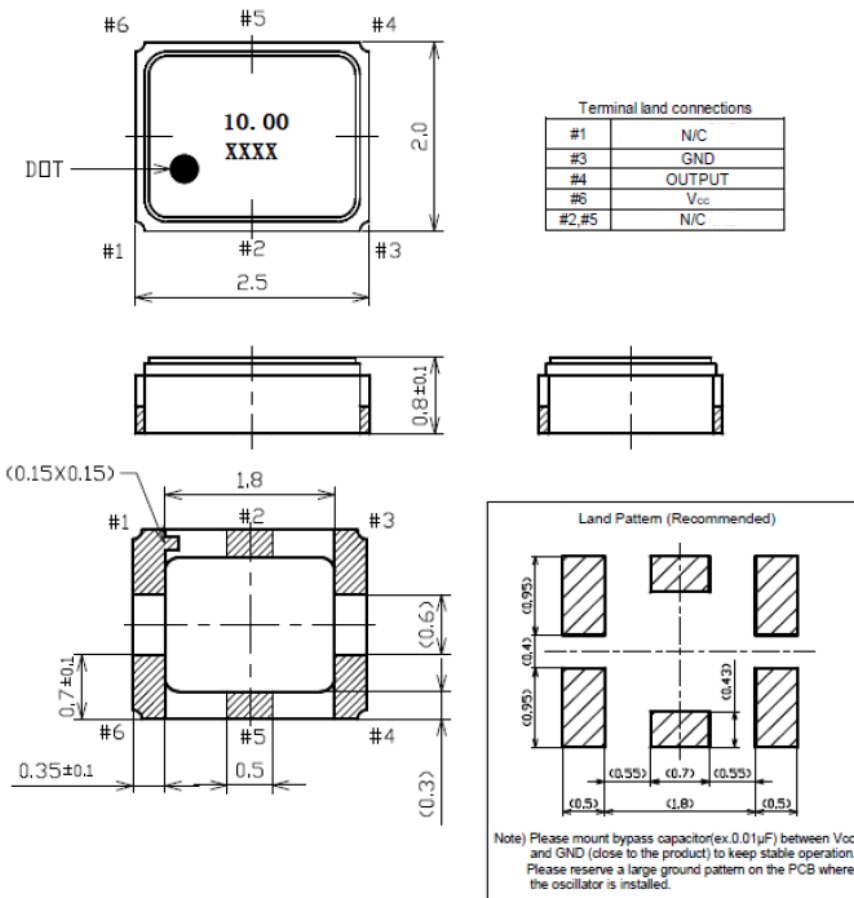
## 1、Electrical Parameters

MODEL: T22-F519-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Harmonics			-5	dBc	
	Startup time			2	ms	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	$T_A$ varied from $-40^{\circ}\text{C}$ to $85^{\circ}\text{C}$ , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$ , $V_{\text{cc}}=3.3\text{V}$ , $O_{\text{load}}=10\text{K}\Omega//10\text{pF}$ , temperature variable speed less than $2^{\circ}\text{C}$ per minute.
	Nominal Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}$ varied from 3.135V to 3.465V, and $O_{\text{Load}}=10\text{K}\Omega//10\text{pF}$ .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , and $O_{\text{Load}}=10\text{K}\Omega//10\text{pF}$ .
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , and after 1h of operation
Power Supply	Operating Current			2	mA	@ $25^{\circ}\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , $O_{\text{Load}}=10\text{K}\Omega//10\text{pF}$ .
	Supply Voltage	3.135	3.3	3.465	V	
Phase Noise	Phase Noise @ $25^{\circ}\text{C}$		-98		dBc/Hz	10Hz
			-125			100Hz
			-140			1KHz
			-152			10KHz
			-155			100KHz
			-155			1MHz



Environmental Conditions	Operable Temperature	-40	+85	°C	
	Storage Temperature	-55	+105	°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 3			
	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.				

## 2. Mechanical Structure(mm)

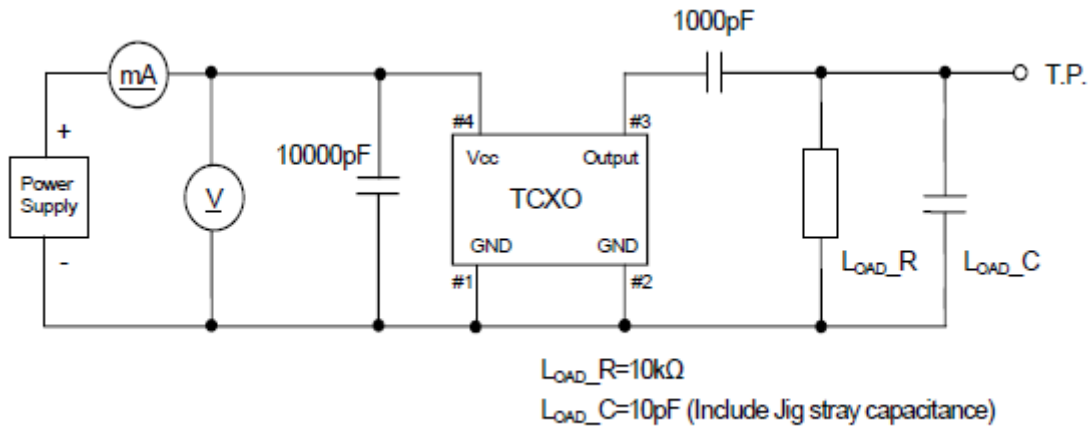


**Note1:** Tolerance ±0.2mm

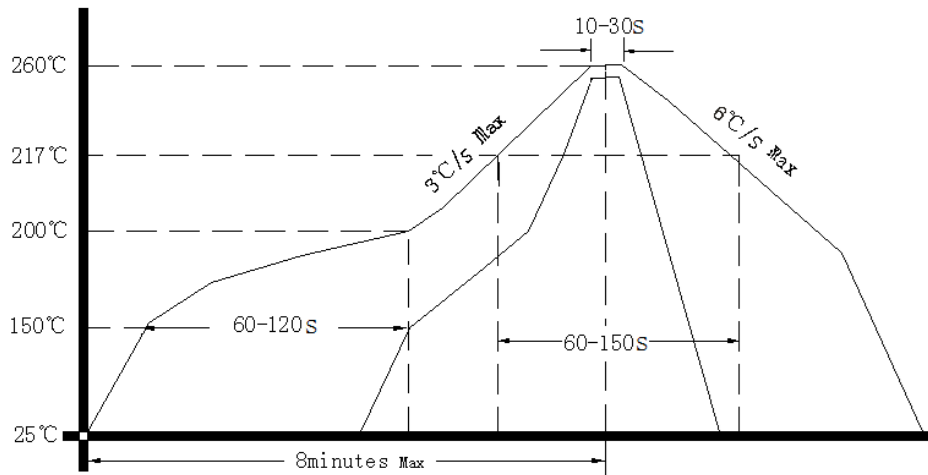
**Note2:** The first two xx representative: year  
After two xx representative: week



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



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

